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**Figure 5-5: Soil/Fill Alternative 6: Institutional Controls, Removal and Off-Site Disposal, and NAPL Removal**

**Figure 5-6: Soil/Fill Alternative 7: Institutional Controls, Ex-Situ Treatment and On-Site Placement, Engineering Controls, and NAPL Removal**

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**Figure 5-13: Soil Gas Alternative 2: Institutional Controls, Air Monitoring or Engineering Controls (existing occupied buildings) and Site-Wide Engineering Controls (future buildings)**

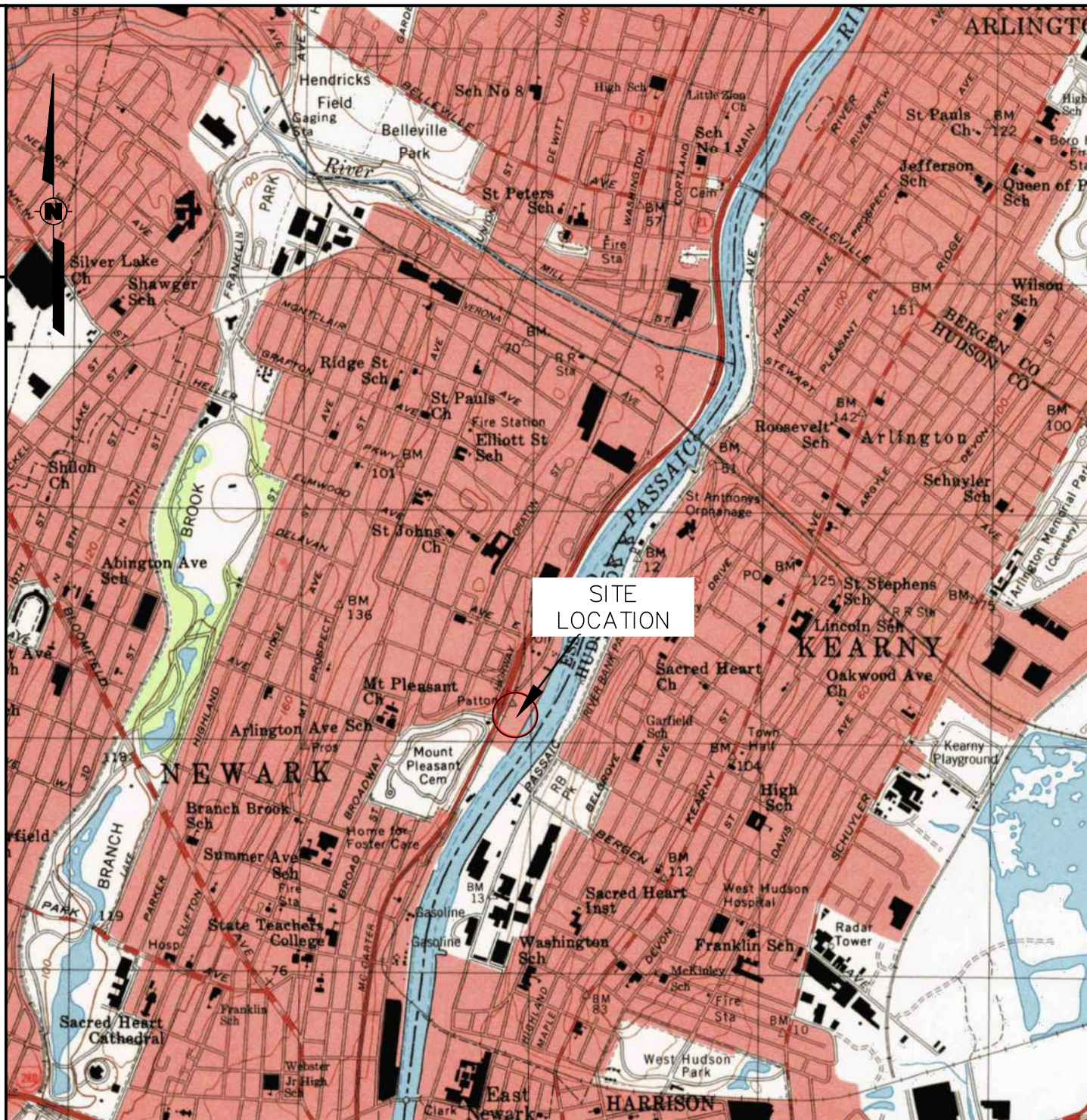
**Figure 5-14: Soil Gas Alternative 3: Institutional Controls, Site-Wide Engineering Controls (future buildings), and Air Monitoring or Engineering Controls and In-Situ Remediation of Soil/Fill (existing occupied buildings)**

**Figure 5-15: Soil Gas Alternative 4: Institutional Controls, Site-Wide Engineering Controls (future buildings), and Air Monitoring or Engineering Controls and Removal and Off-Site Disposal of Soil/Fill (existing occupied buildings)**

**Figure 5-16: Soil Gas Alternative 5: Institutional Controls, Site-Wide Engineering Controls (future buildings), and Air Monitoring or Engineering Controls and Ex-Situ Treatment and On-Site Placement of Soil/Fill (existing occupied buildings)**

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NEW JERSEY



QUADRANGLE  
LOCATION

REFERENCE:

USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE;  
ORANGE, NEW JERSEY, 1995.

FIGURE 1-1

SITE LOCATION MAP

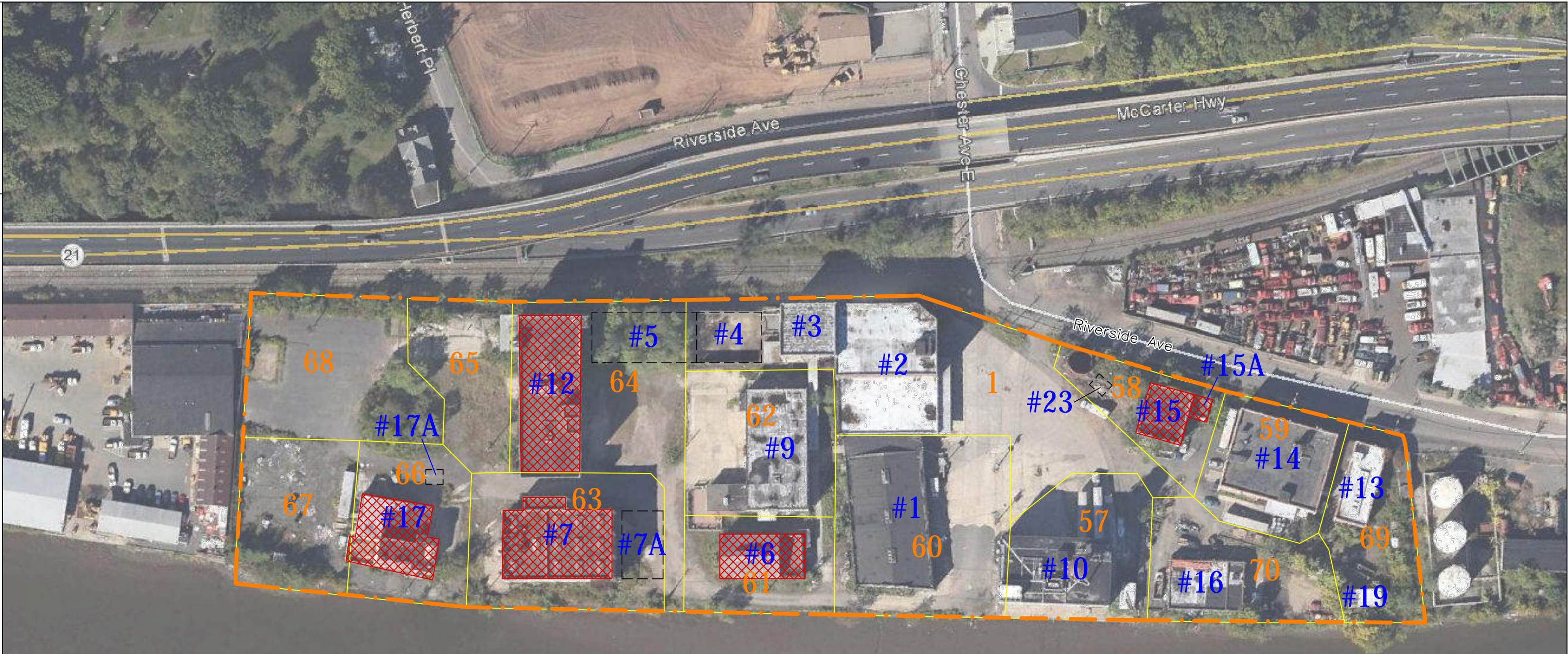
RIVERSIDE INDUSTRIAL PARK  
SUPERFUND SITE  
NEWARK, NEW JERSEY

DRAWING NUMBER

13620A1

			DRAWN BY: D.J. Martino	DATE: 06-18-14
			CHECKED BY: B.T. Zewe	DATE: 07-08-14
REVISION	DATE	DESCRIPTION	APPROVED BY: K.J. Bird	DATE: 07-08-14





BLOCK 614 LOT #	BUILDING #	OWNER
1	2, 3	HATZLUCHA ON RIVERSIDE, LLC.
57	10	PLAGRO REALTY, INC.
58	15, 15A	CITY OF NEWARK
59	14	ALBERT SHARPHOUSE
60	1	SHEFAH IN NEWARK, LLC.
61	6	CITY OF NEWARK
62	9	CELCOR ASSOC., LLC.
63	7	CITY OF NEWARK
64	12	CITY OF NEWARK
65	NA	INDUSTRIAL DEV. CORP.
66	17	CHEMICAL COMPOUNDS, INC.
67	NA	CELCOR ASSOC., LLC.
AR	NA	CITY OF NEWARK
69	13, 19	SHARPMORE HOLDING INC.
70	16	ESTATE OF CAROLE GRAIFMAN

LEGEND

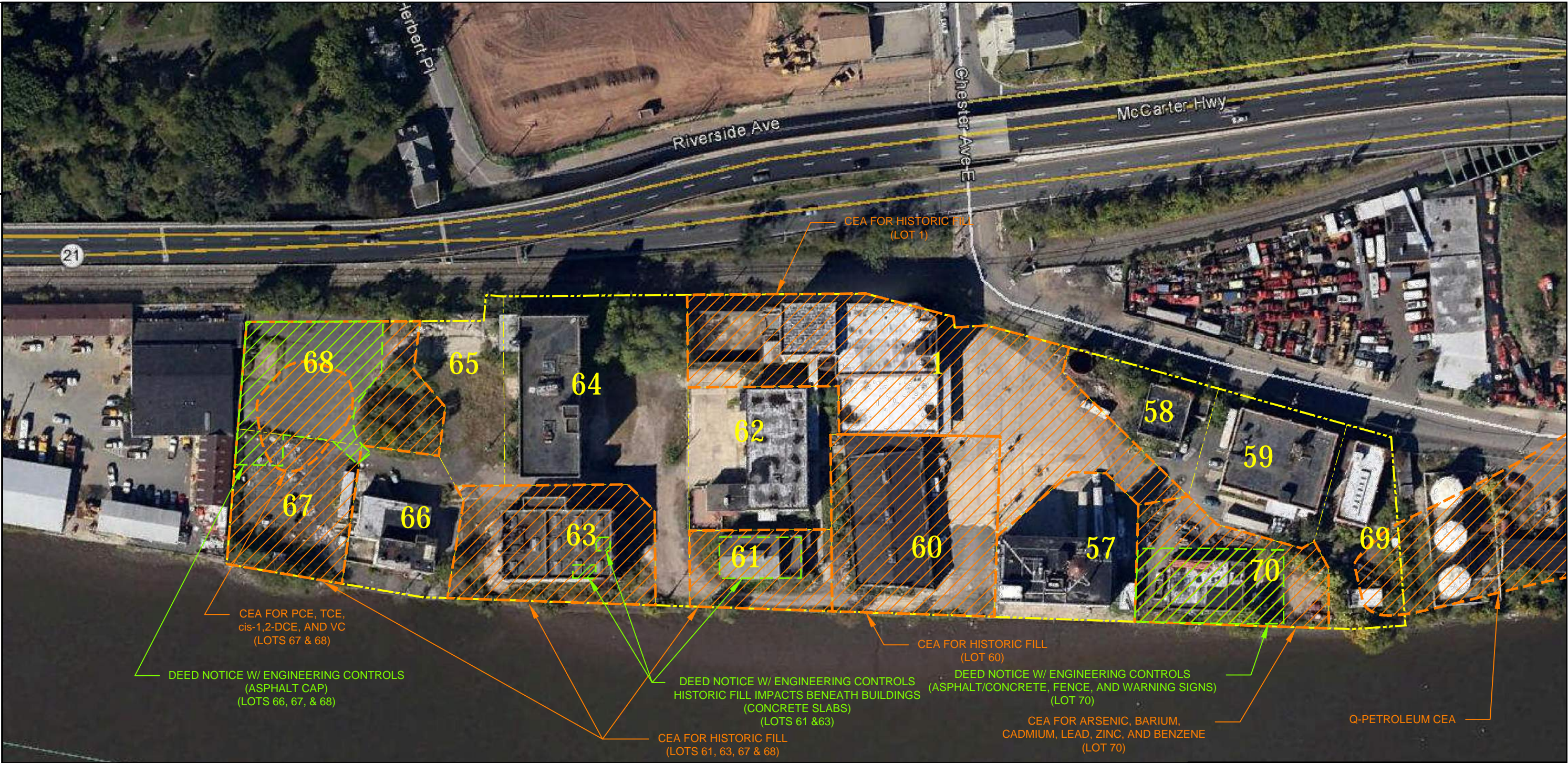
- FORMER BUILDING FOOTPRINT
- - - - - APPROXIMATE SITE BOUNDARY
- - - - - APPROXIMATE LOT BOUNDARY
- 61 LOT NUMBER
- #17 BUILDING NUMBER
- VACANT BUILDING

#1	6/28/16	Add Building Numbers
#2	4/6/17	Add Former Building Footprints
#3	9/26/18	Update Owner Table
REVISION	DATE	DESCRIPTION

FIGURE 2-1  
PARCEL AND BUILDING LOCATION MAP  
RIVERSIDE INDUSTRIAL PARK  
SUPERFUND SITE  
NEWARK, NEW JERSEY

DRAWING NUMBER 13620B2	
DRAWN BY: T.N. Fitzroy	DATE: 3/24/14
CHECKED BY: B.T. Zewe	DATE: 07/08/14
APPROVED BY: K.J. Bird	DATE: 07/08/14





LEGEND

- ENGINEERING CONTROL
- CEA BOUNDARY
- PROPERTY BOUNDARY
- 66** LOT NUMBER

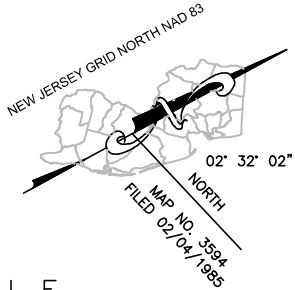


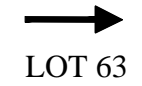
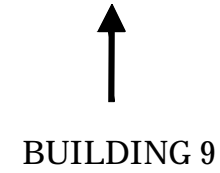
FIGURE 2-2  
DEED NOTICES, CEAS, AND  
ENGINEERING CONTROLS MAP  
  
RIVERSIDE INDUSTRIAL PARK  
SUPERFUND SITE  
NEWARK, NEW JERSEY

			DRAWN BY: C.J. Miller	DATE: 10-15-2019
			CHECKED BY: B.T. Zewe	DATE: 10-15-2019
REVISION	DATE	DESCRIPTION	APPROVED BY: K.J. Bird	DATE: 10-15-2019













**LEGEND**

	VERTICAL CONCRETE WALL
	CONCRETE SLAB
	PIPE
	TANK PORTAL WHERE SAMPLE COLLECTED

REV	DESCRIPTION	DATE
	DESIGNED BY: R.J. JONES	CHECKED BY: B.T. ZENE
	DRAWN BY: C.J. MILLER	JUST LAYOUT

## UNDERGROUND STORAGE TANK LAYOUT AND SAMPLE LOCATIONS

VERSIDE INDUSTRIAL PARK  
SUPERFUND SITE  
EPA ID: NJSFN0204232  
TAX BLOCK 614

NEWARK, NEW JERSEY

JOB NO.: 0013620
DATE: 10-15-2019
SCALE: AS SHOWN
SHEET: OF

FIGURE 2-4








LEGEND

- FORMER BUILDING FOOTPRINT
- .-.- APPROXIMATE SITE BOUNDARY
- APPROXIMATE LOT BOUNDARY

61 LOT NUMBER

#17 BUILDING NUMBER

 BHHRA SHOWS RISK ABOVE EPA RISK RANGE UNDER CURRENT OR FUTURE COMMERCIAL/INDUSTRIAL USE

 LOTS WHERE MAXIMUM ECOLOGICAL HQ > 1 IN SURFACE SOIL\*  
\*(BHHRA RISKS ARE NOT ABOVE EPA RISK RANGE UNDER CURRENT AND FUTURE COMMERCIAL/INDUSTRIAL LAND USE.)

Lot	Chemical of Concern
1	Lead
58	TCE, Xylenes
61	Lead
62	Naphthalene, Lead
63	Lead, Copper
64	Lead
65	Lead
68	Lead, TCE
70	Lead

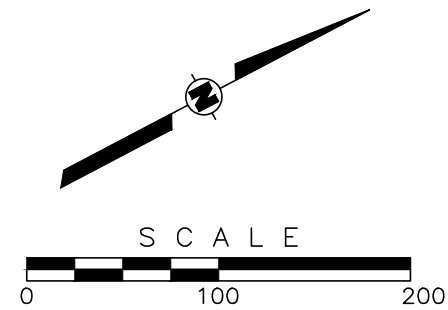


FIGURE 2-6  
ON-SITE AREAS OF CONCERN  
SOIL/FILL AND WASTE  
RIVERSIDE INDUSTRIAL PARK  
SUPERFUND SITE  
NEWARK, NEW JERSEY

DRAWING NUMBER  
13620B2

DRAWN BY: P.F. Fillmore DATE: 03/18/2020  
CHECKED BY: B.T. Zewe DATE: 03/18/2020  
APPROVED BY: K.J. Bird DATE: 03/18/2020

REVISION	DATE	DESCRIPTION





**Figure 3-1**  
**Site-Wide**  
**Soil Sampling Results**  
**Arsenic**  
**ARAR = 19 mg/kg**  
Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

**Legend**

**RIFS Soil Sampling Results (mg/kg)**

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)
- Lot Boundary

**Notes:**

- Locations with multiple results represent multiple sample depth intervals at that location.
- Surface samples taken < 2', subsurface samples taken ≥ 2' based on initial interval depth.
- Field duplicate results not plotted.
- See results tables for qualifier definitions.

0 100 200  
Feet  
1 inch = 125 feet

Project #: 0013620  
Map Created: June 2020

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.



## An aerial photograph of an industrial or commercial site, overlaid with a yellow boundary line. The site contains several buildings, some labeled with orange numbers: 1, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, and 70. Numerous green circular markers are scattered throughout the site, each accompanied by a numerical value and a unit code (e.g., U, J, UJ). These values represent surface water levels or depths. A legend box in the top left corner is titled "Surface". In the bottom left corner, there is a Bing logo. At the bottom center, copyright information reads: "© 2020 Microsoft Corporation © 2020 DigitalGlobe © CNES (2020) Distribution Airbus DS".

[illegible]

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**Figure 3-3**  
**Site-Wide**  
**Soil Sampling Results**  
Benz(a)anthracene  
ARAR = 17 mg/kg

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

N

**Legend**

**RIFS Soil Sampling Results (mg/kg)**

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)
- Lot Boundary

**Notes:**

- Locations with multiple results represent multiple sample depth intervals at that location.
- Surface samples taken < 2', subsurface samples taken ≥ 2' based on initial interval depth.
- Field duplicate results not plotted.
- See results tables for qualifier definitions.

0 100 200  
Feet  
1 inch = 125 feet

Project #: 0013620  
Map Created: June 2020

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.





**Figure 3-4**  
**Site-Wide**  
**Soil Sampling Results**  
Benzo(a)pyrene  
ARAR = 2 mg/kg

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

N

**Legend**

**RIFS Soil Sampling Results (mg/kg)**

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)
- Lot Boundary

**Notes:**

- Locations with multiple results represent multiple sample depth intervals at that location.
- Surface samples taken < 2', subsurface samples taken ≥ 2' based on initial interval depth.
- Field duplicate results not plotted.
- See results tables for qualifier definitions.

0 100 200  
Feet  
1 inch = 125 feet

Project #: 0013620  
Map Created: June 2020

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.





**Figure 3-5**  
**Site-Wide**  
**Soil Sampling Results**  
**Benzo(b)fluoranthracene**  
**ARAR = 17 mg/kg**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey



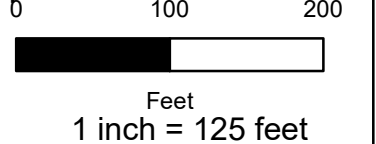
**Legend**

**RIFS Soil Sampling Results (mg/kg)**

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)
- Lot Boundary

**Notes:**

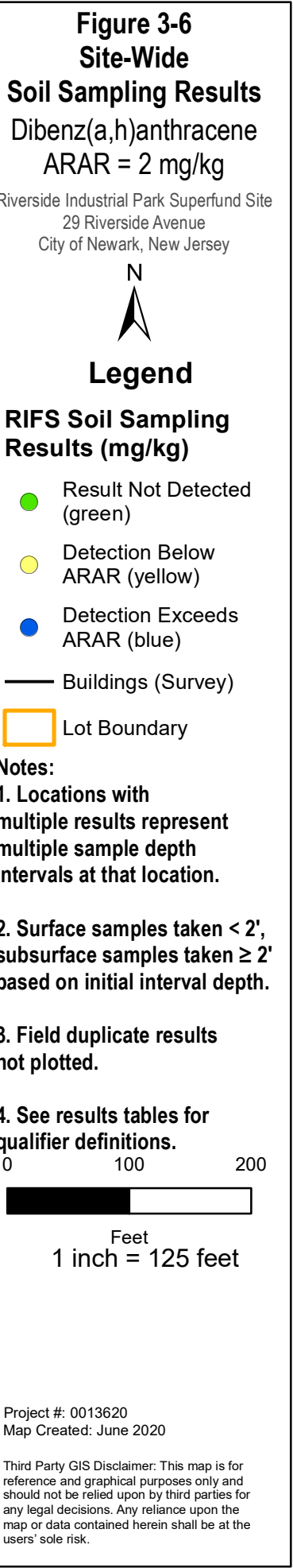
- Locations with multiple results represent multiple sample depth intervals at that location.
- Surface samples taken < 2', subsurface samples taken ≥ 2' based on initial interval depth.
- Field duplicate results not plotted.
- See results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.









**Figure 3-7**  
**Site-Wide**  
**Soil Sampling Results**  
**Lead**  
**ARAR = 800 mg/kg**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

N

**Legend**

**RIFS Soil Sampling Results (mg/kg)**

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)
- Lot Boundary

**Notes:**

- Locations with multiple results represent multiple sample depth intervals at that location.
- Surface samples taken < 2', subsurface samples taken ≥ 2' based on initial interval depth.
- Field duplicate results not plotted.
- See results tables for qualifier definitions

0 100 200  
Feet  
1 inch = 125 feet

Project #: 0013620  
Map Created: June 2020

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**Figure 3-8**  
**Site-Wide**  
**Soil Sampling Results**  
**Manganese**  
**ARAR = 5,900 mg/kg**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

N

**Legend**

**RIFS Soil Sampling Results (mg/kg)**

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)
- Lot Boundary

**Notes:**

- Locations with multiple results represent multiple sample depth intervals at that location.
- Surface samples taken < 2', subsurface samples taken ≥ 2' based on initial interval depth.
- Field duplicate results not plotted.
- See results tables for qualifier definitions.

0 100 200

Feet  
1 inch = 125 feet

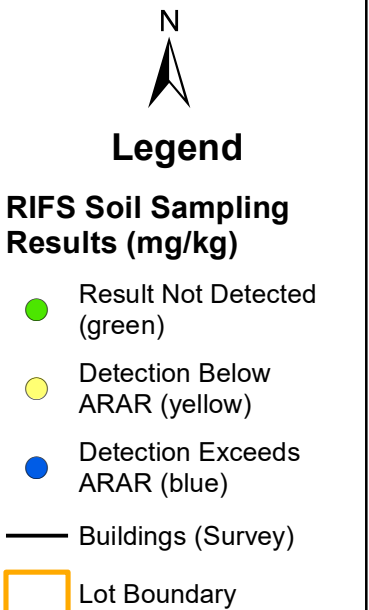
Project #: 0013620  
Map Created: June 2020

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**Figure 3-9**  
**Site-Wide**  
**Soil Sampling Results**  
**Naphthalene**  
**ARAR = 17 mg/kg**  
Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey



**Notes:**

- Locations with multiple results represent multiple sample depth intervals at that location.
- Surface samples taken < 2', subsurface samples taken ≥ 2' based on initial interval depth.
- Field duplicate results not plotted.
- See results tables for qualifier definitions.

0 100 200  
Feet  
1 inch = 125 feet

Project #: 0013620  
Map Created: June 2020

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**Figure 3-11**  
**Site-Wide**  
**Soil Sampling Results**  
Aroclor-1260  
ARAR = 1 mg/kg  
Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

**Legend**

**RIFS Soil Sampling Results (mg/kg)**

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)
- Lot Boundary

**Notes:**

- Locations with multiple results represent multiple sample depth intervals at that location.
- Surface samples taken < 2', subsurface samples taken ≥ 2' based on initial interval depth.
- Field duplicate results not plotted.
- See results tables for qualifier definitions.

0 100 200  
Feet  
1 inch = 125 feet

Project #: 0013620  
Map Created: June 2020

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This aerial map displays an industrial facility with several buildings outlined in black and numbered 1, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, and 70. The buildings are surrounded by a network of roads and parking lots. Numerous data points are plotted across the map, each labeled with a numerical value and a unit. The values range from 0.0033 to 0.046, with units including 'U', 'J', and 'UJ'. A legend in the top left corner indicates 'Surface'. The map is overlaid with a grid of orange lines. The background is a grayscale aerial photograph showing the physical layout of the site and surrounding areas.

Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.



[illegible]

**Subsurface**

This aerial map displays an industrial facility with various buildings and storage tanks. The site is overlaid with an orange boundary and numerous subsurface data points, primarily green circles with numerical labels. Building footprints are outlined in black and labeled with orange numbers: 1, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, and 70. A yellow circle is labeled '0.012 J+'. A road runs along the left side of the image. The Bing logo is in the bottom left corner, and copyright information is at the bottom right.

© 2020 Microsoft Corporation © 2020 DigitalGlobe © CNES (2020)  
Distribution Airbus DS

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey



### RIFS Soil Sampling Results (mg/kg)

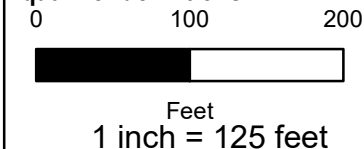
- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)
- Lot Boundary

**1. Locations with multiple results represent multiple sample depth intervals at that location.**

2. Surface samples taken  $< 2'$ ,  
subsurface samples taken  $\geq 2'$   
based on initial interval depth.

- 3. Field duplicate results not plotted.**

4. See results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020

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**Figure 3-14**  
**Site-Wide**  
**Soil Sampling Results**  
Vinyl Chloride  
ARAR = 2 mg/kg

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey



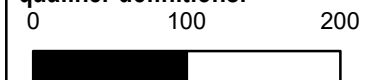
## Legend

### RIFS Soil Sampling Results (mg/kg)

-  Result Not Detected (green)
-  Detection Below ARAR (yellow)
-  Detection Exceeds ARAR (blue)
-  Buildings (Survey)
-  Lot Boundary

**Notes:**

1. Locations with multiple results represent multiple sample depth intervals at that location.
2. Surface samples taken  $< 2'$ , subsurface samples taken  $\geq 2'$  based on initial interval depth.
3. Field duplicate results not plotted.
4. See results tables for qualifier definitions.

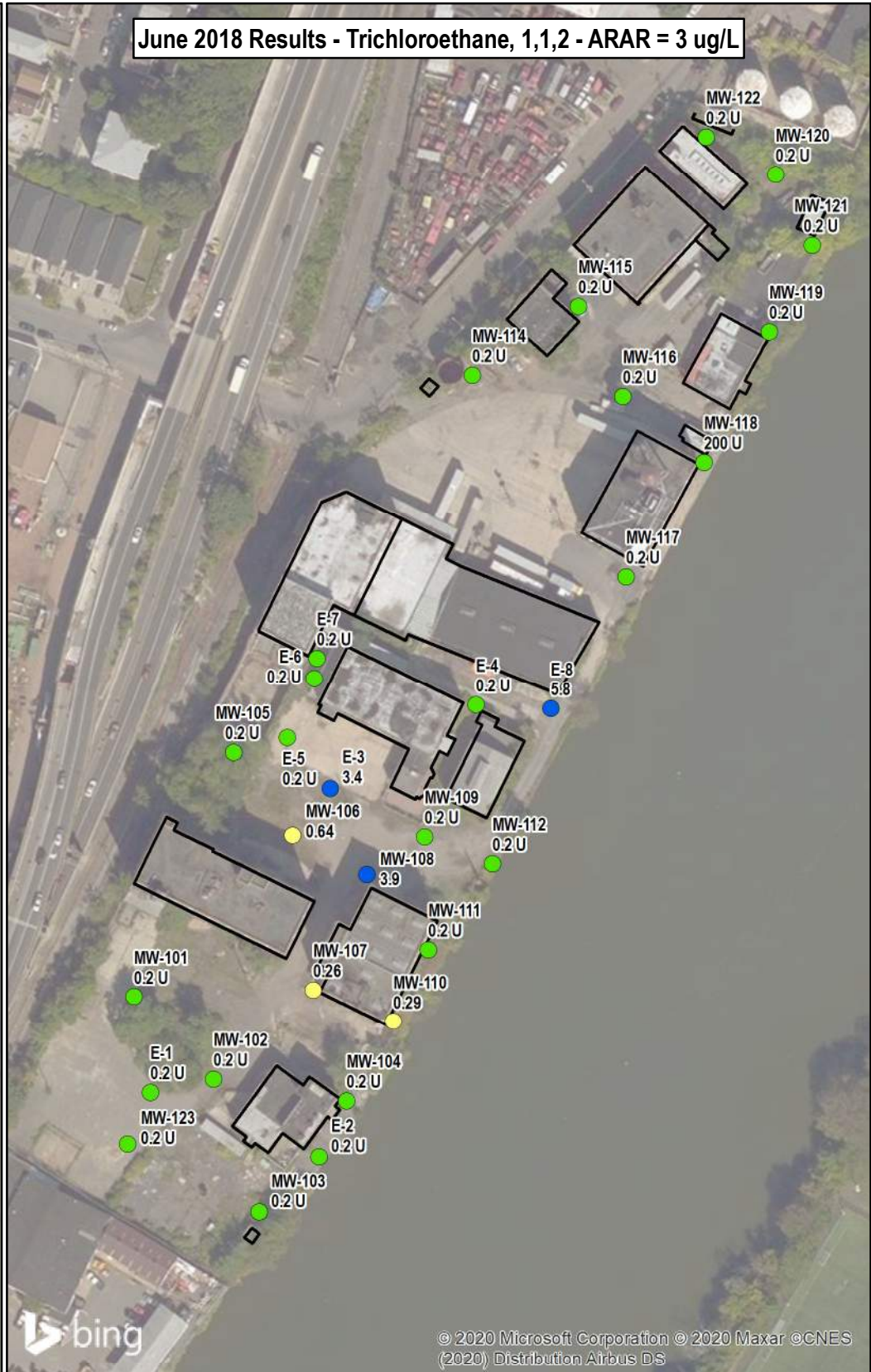
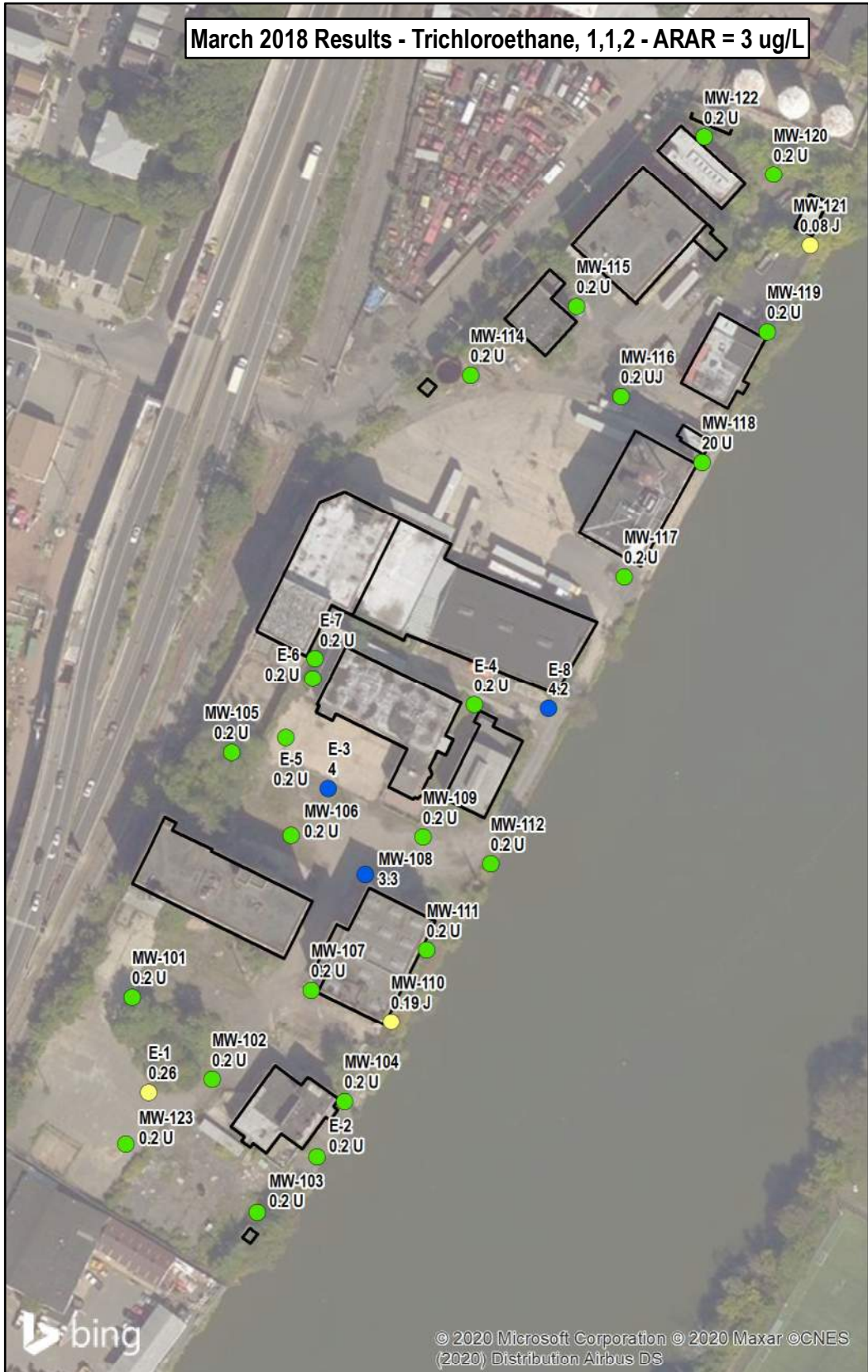


Feet  
1 inch = 125 feet

Project #: 0013620  
Map Created: June 2020

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**Figure 3-15**  
**Trichloroethane, 1,1,2**  
**Groundwater Sampling**  
**Results - Fill Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

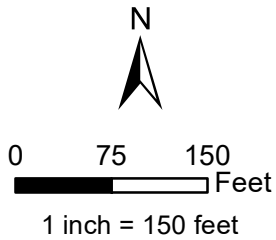
**Legend**

RIFS Groundwater Sampling Results  
(ug/L)

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)

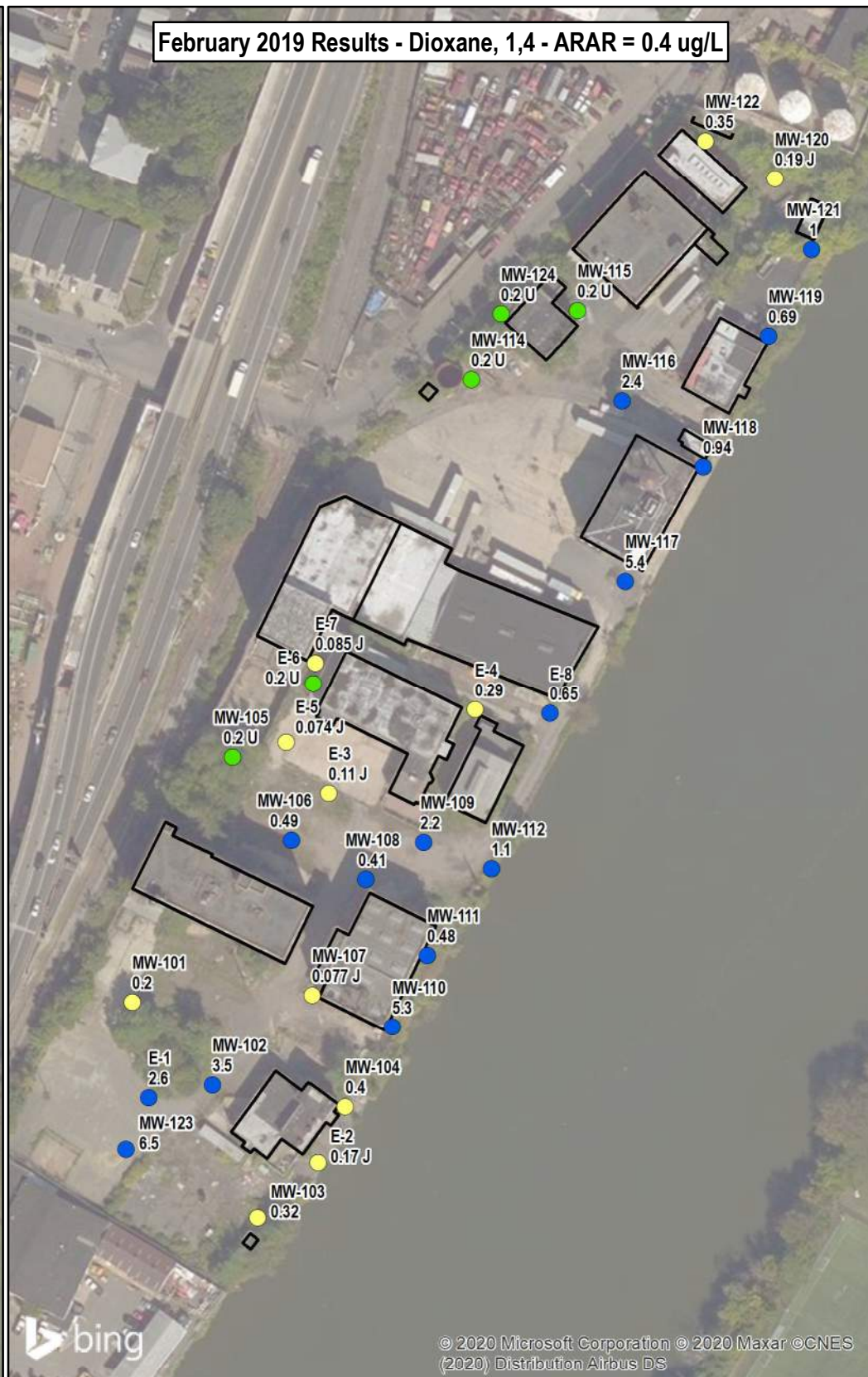
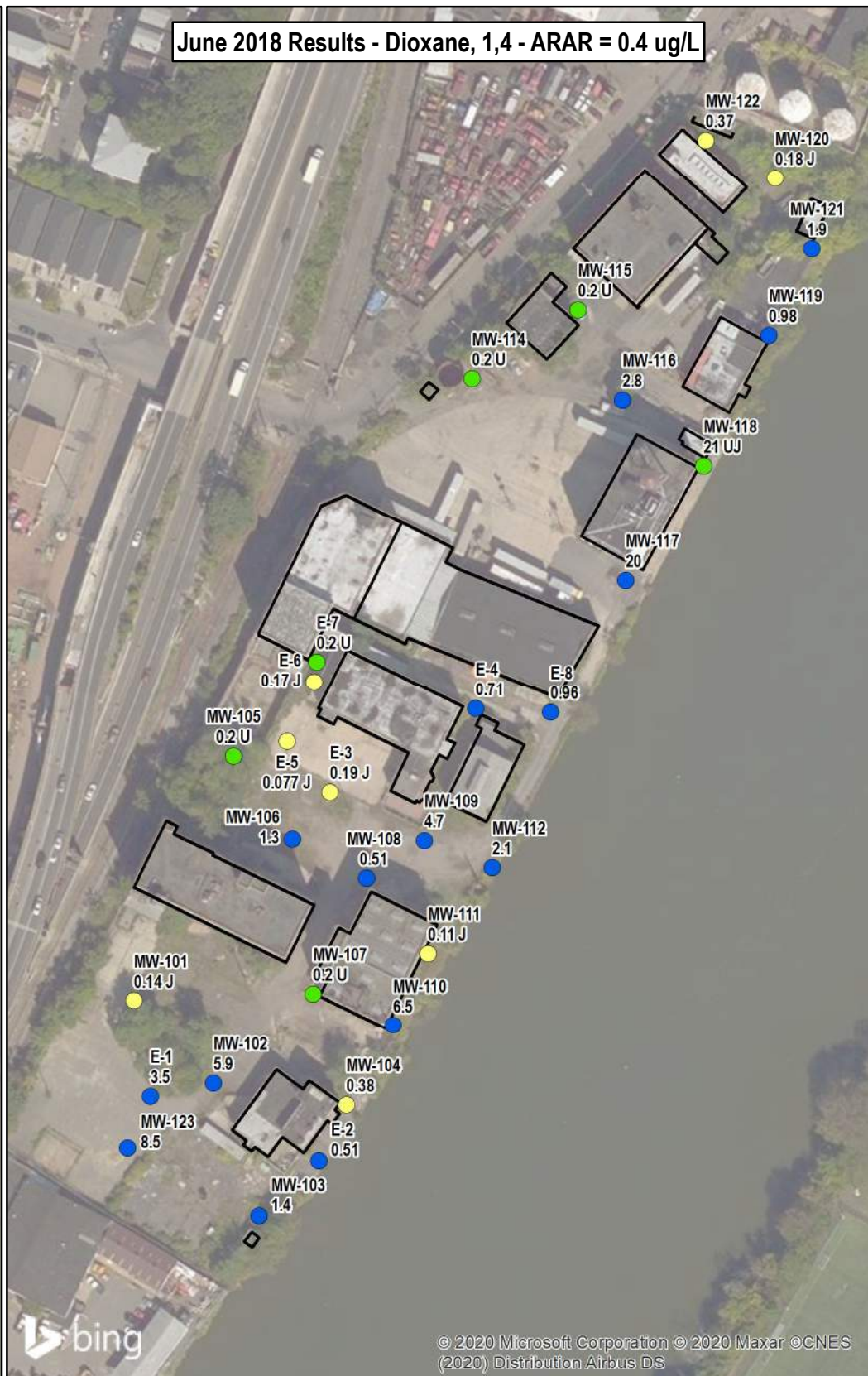
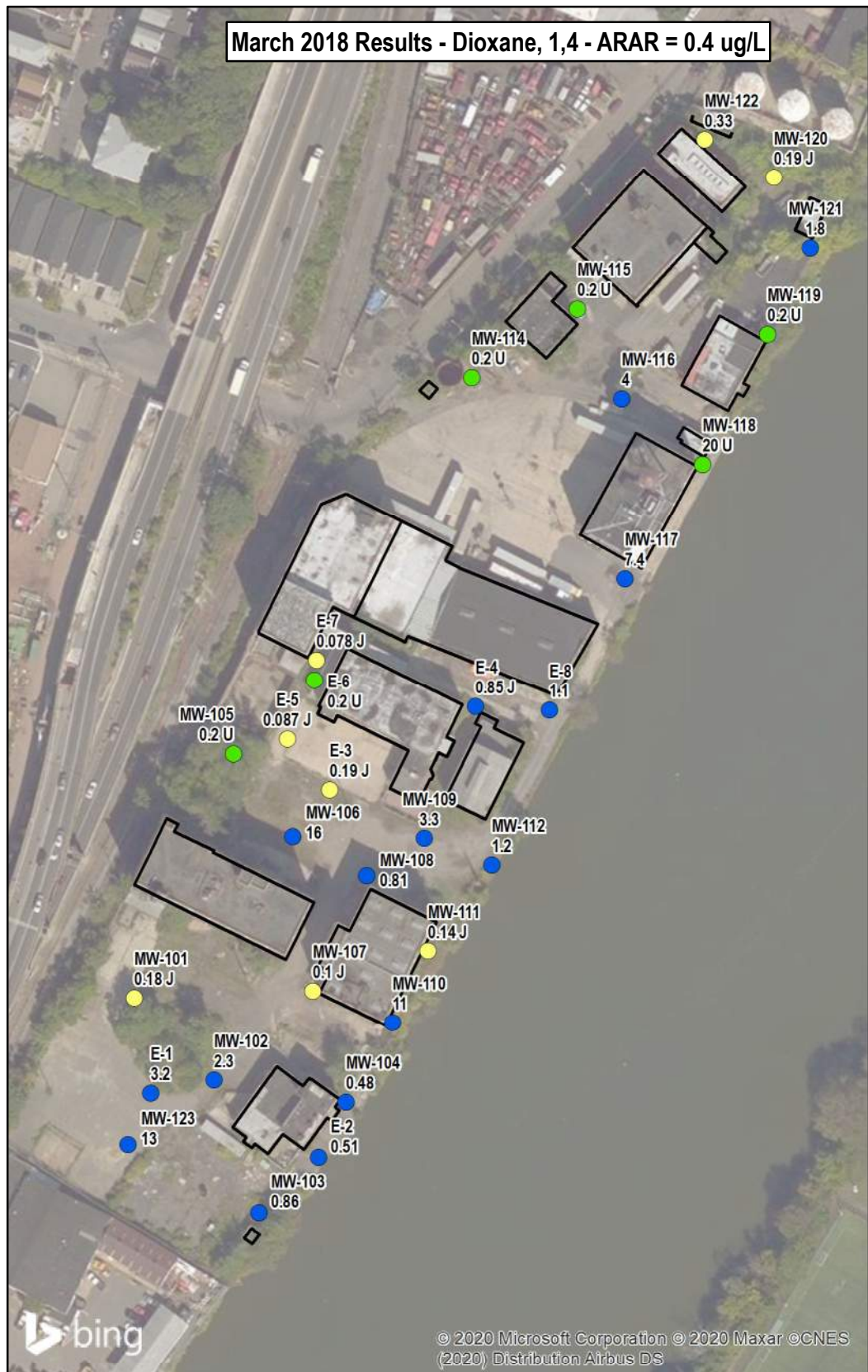
**Notes:**

1. See RIR results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.





**Figure 3-16**  
**Dioxane, 1,4**  
**Groundwater Sampling**  
**Results - Fill Unit**

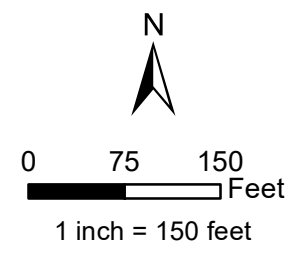
Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

**Legend**

- RIFS Groundwater Sampling Results (ug/L)
- Result Not Detected (green)
  - Detection Below ARAR
  - Detection Exceeds ARAR
  - Buildings (Survey)

**Notes:**

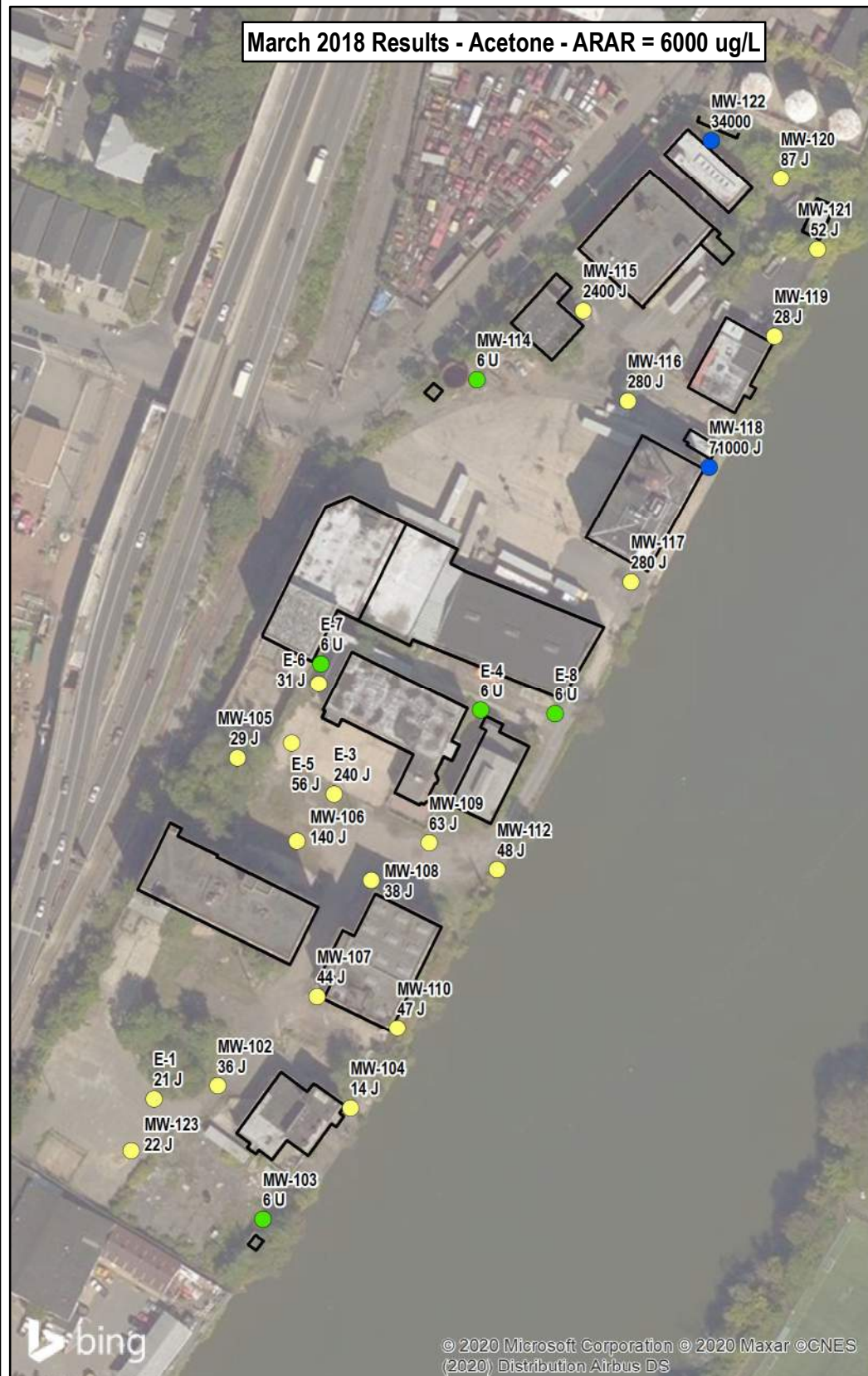
1. See RIR results tables for qualifier definitions.



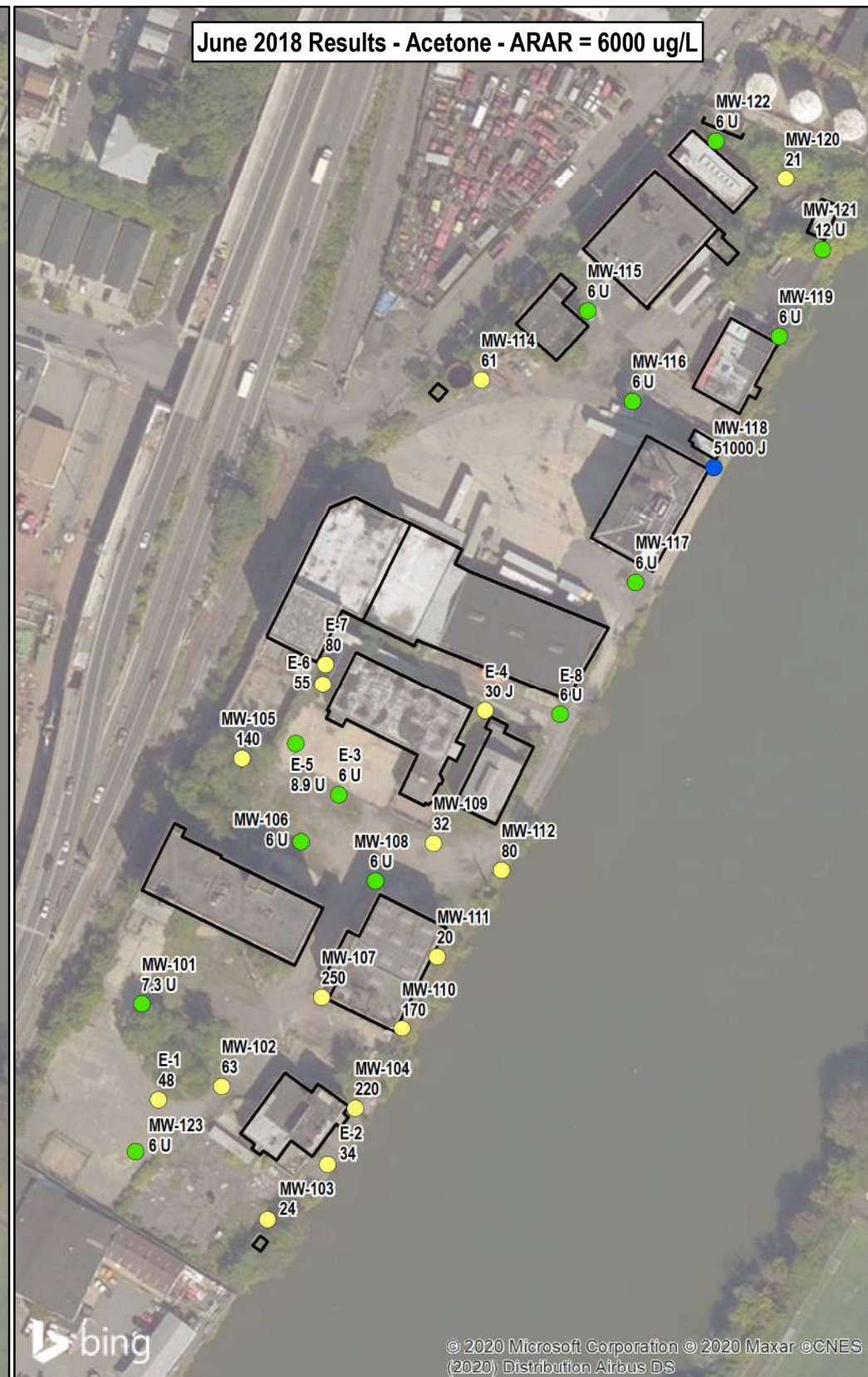
Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.



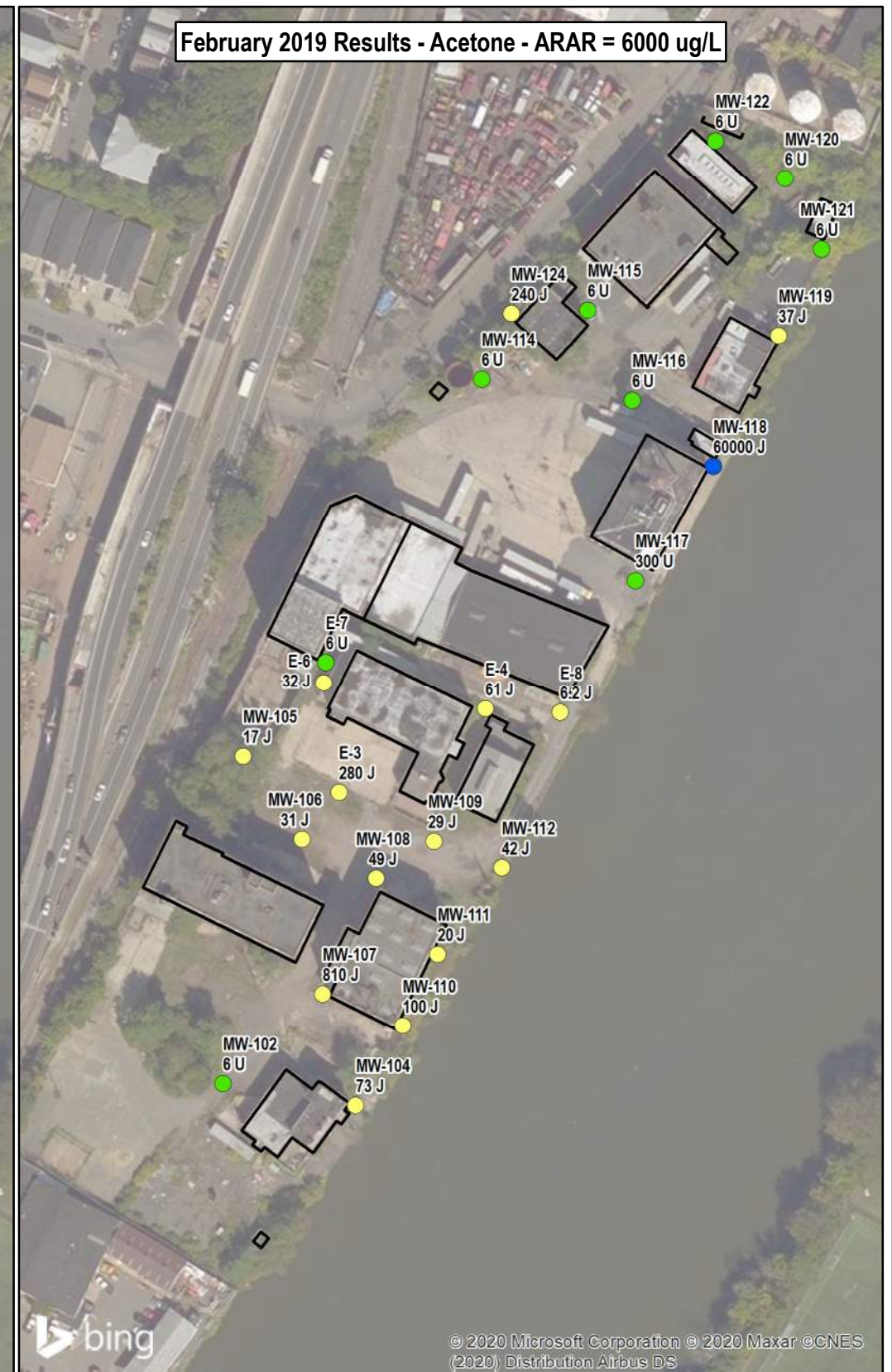
March 2018 Results - Acetone - ARAR = 6000 ug/L



June 2018 Results - Acetone - ARAR = 6000 ug/L



February 2019 Results - Acetone - ARAR = 6000 ug/L



**Figure 3-17**  
**Acetone**  
**Groundwater Sampling**  
**Results - Fill Unit**

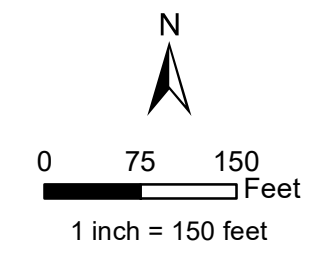
Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

**Legend**

- RIFS Groundwater Sampling Results (ug/L)
- Result Not Detected (green)
  - Detection Below ARAR
  - Detection Exceeds ARAR
  - Buildings (Survey)

**Notes:**

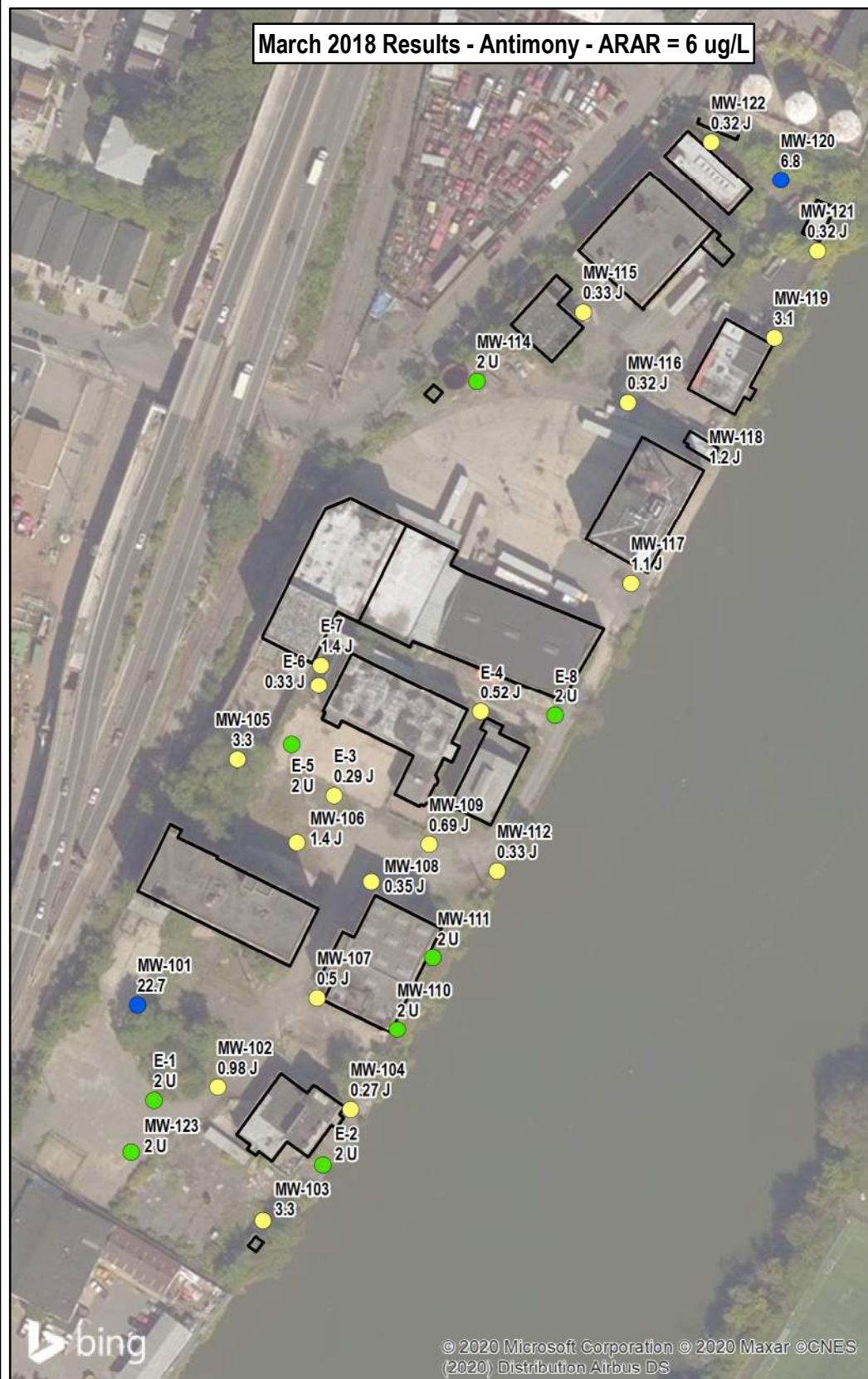
1. See RIR results tables for qualifier definitions.



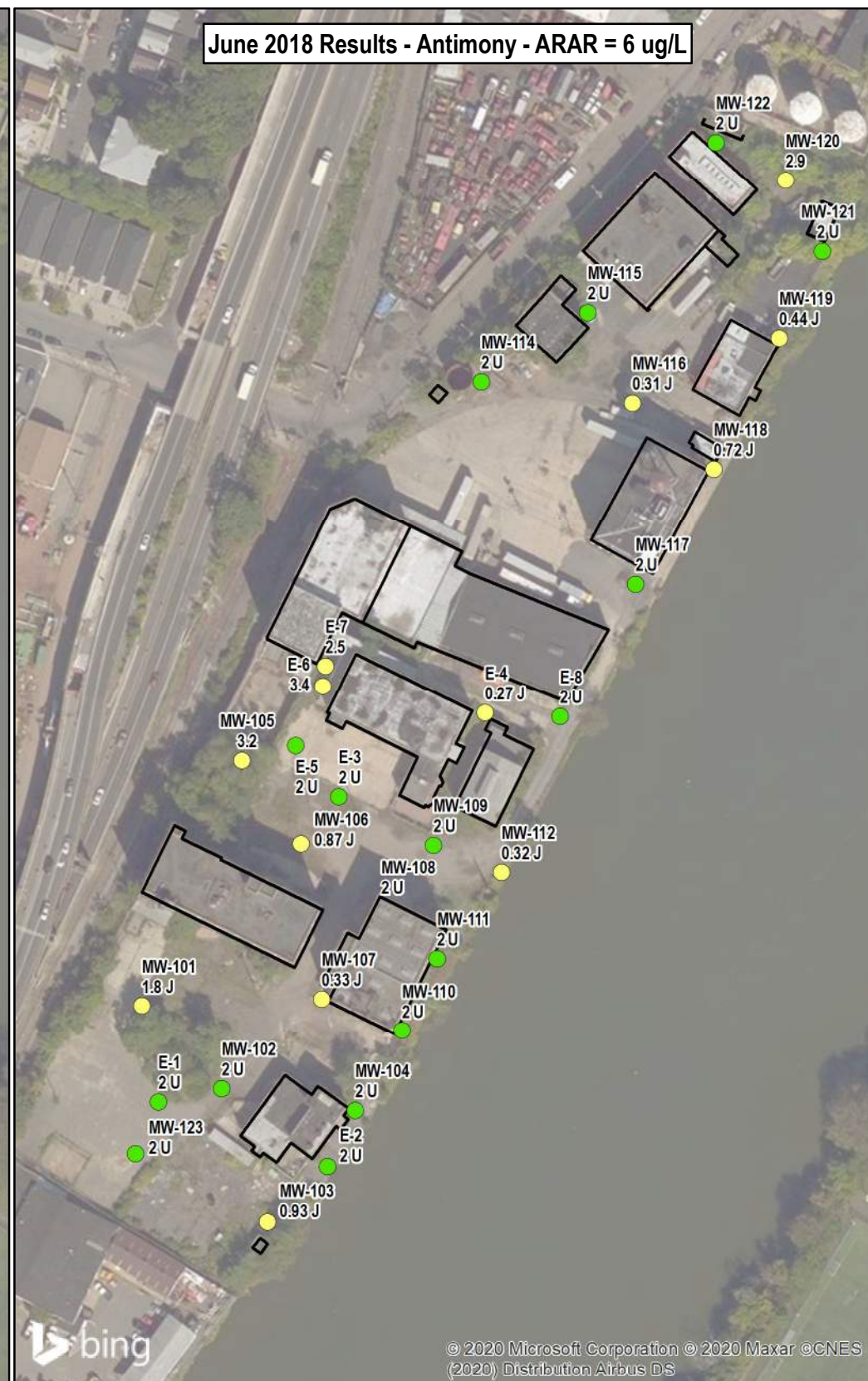
Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.



March 2018 Results - Antimony - ARAR = 6 ug/L



June 2018 Results - Antimony - ARAR = 6 ug/L



February 2019 Results - Antimony - ARAR = 6 ug/L

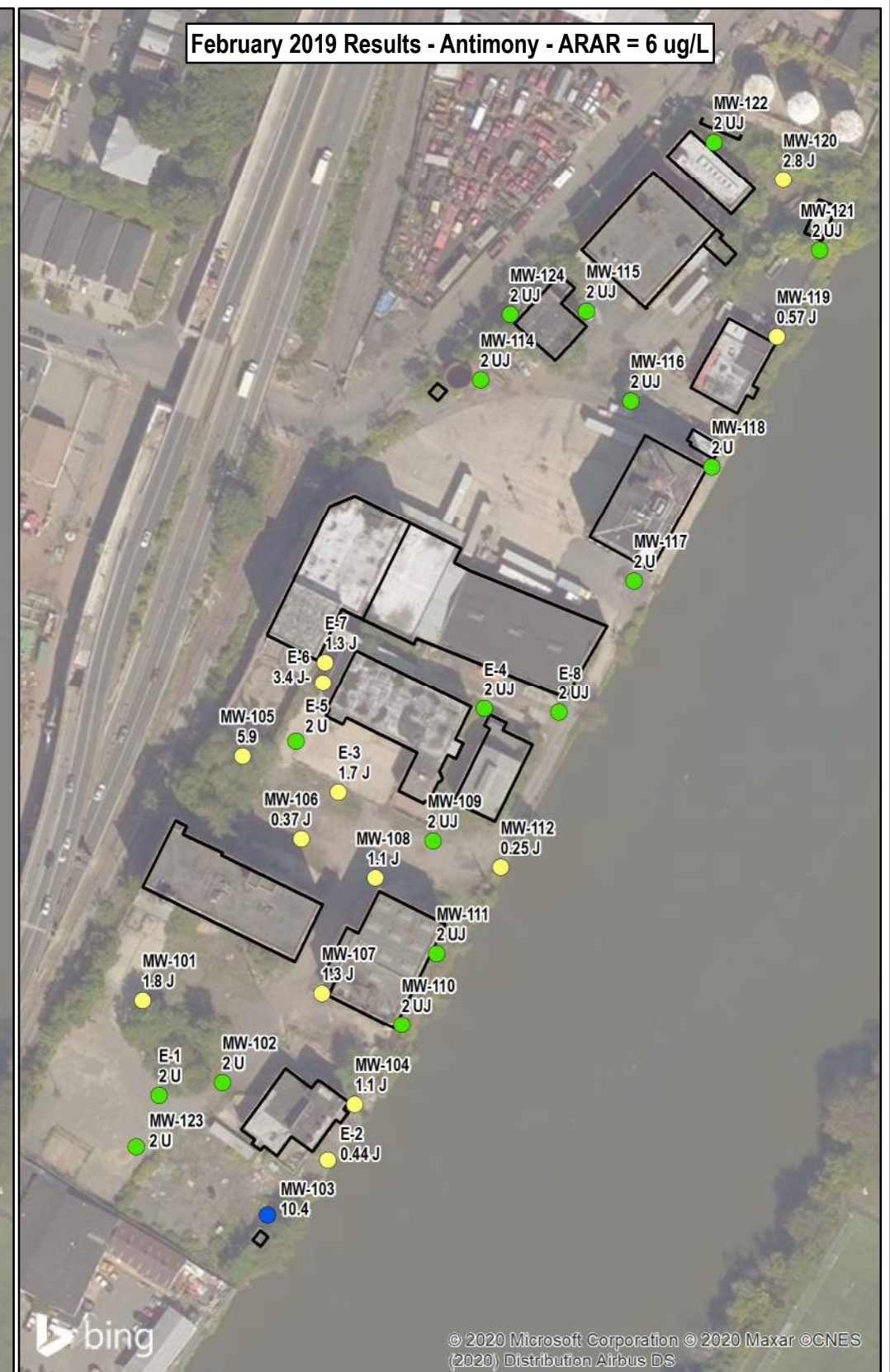


Figure 3-18

**Antimony  
Groundwater Sampling  
Results - Fill Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

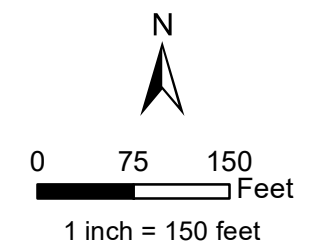
**Legend**

RIFS Groundwater Sampling Results  
(ug/L)

- Result Not Detected (green)
- Detection Below ARAR
- Detection Exceeds ARAR
- Buildings (Survey)

**Notes:**

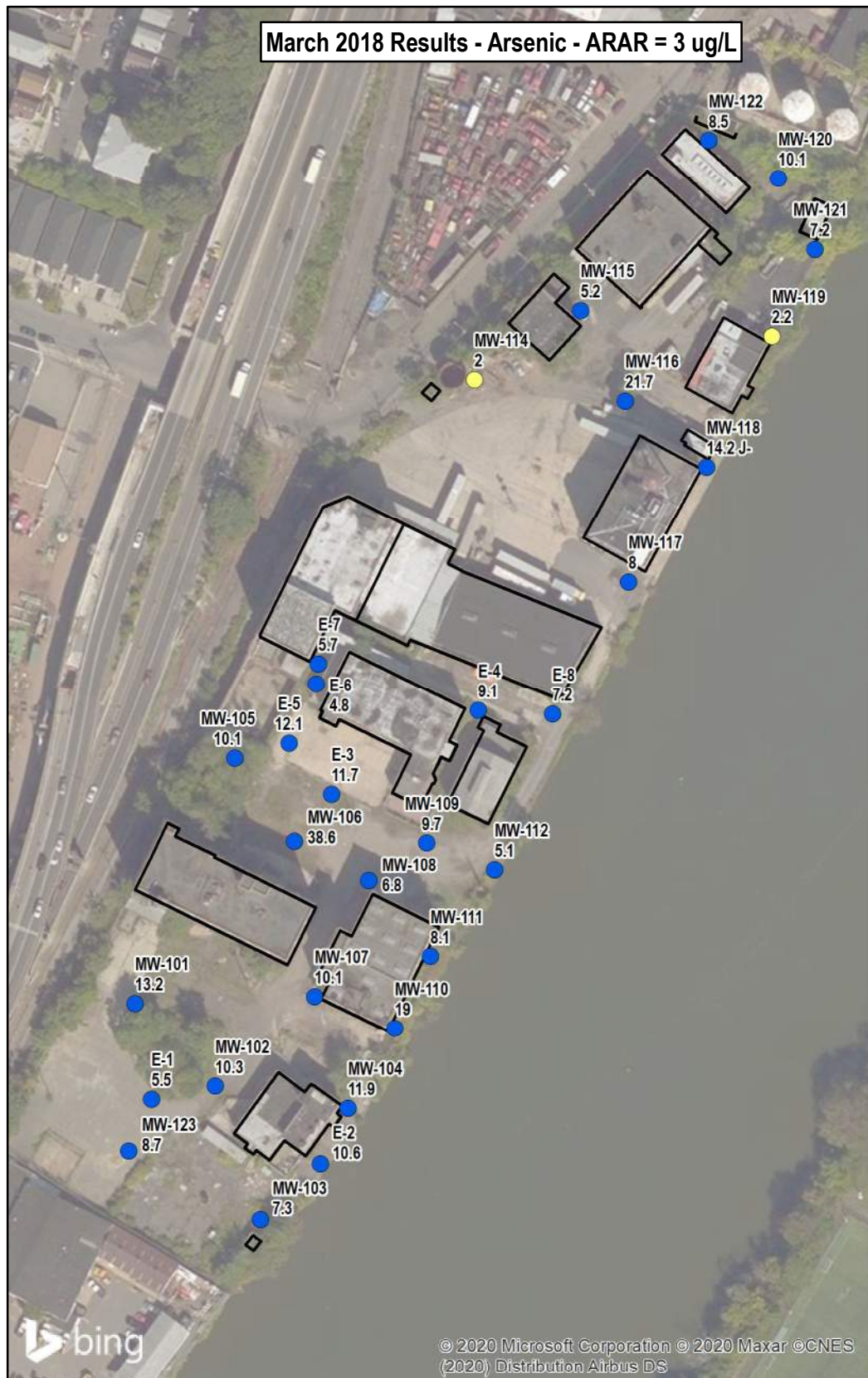
1. See RIR results tables for qualifier definitions.



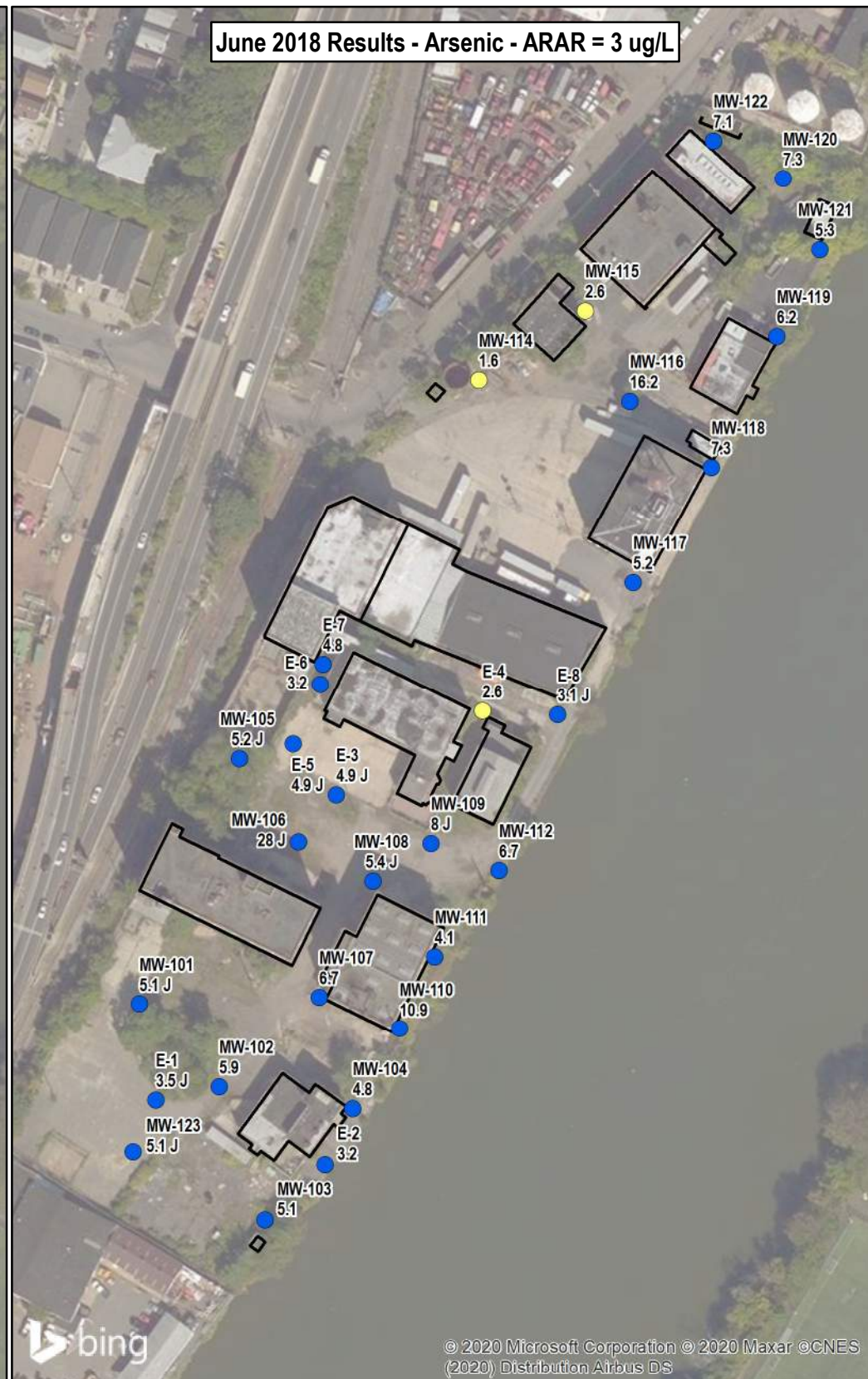
Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.



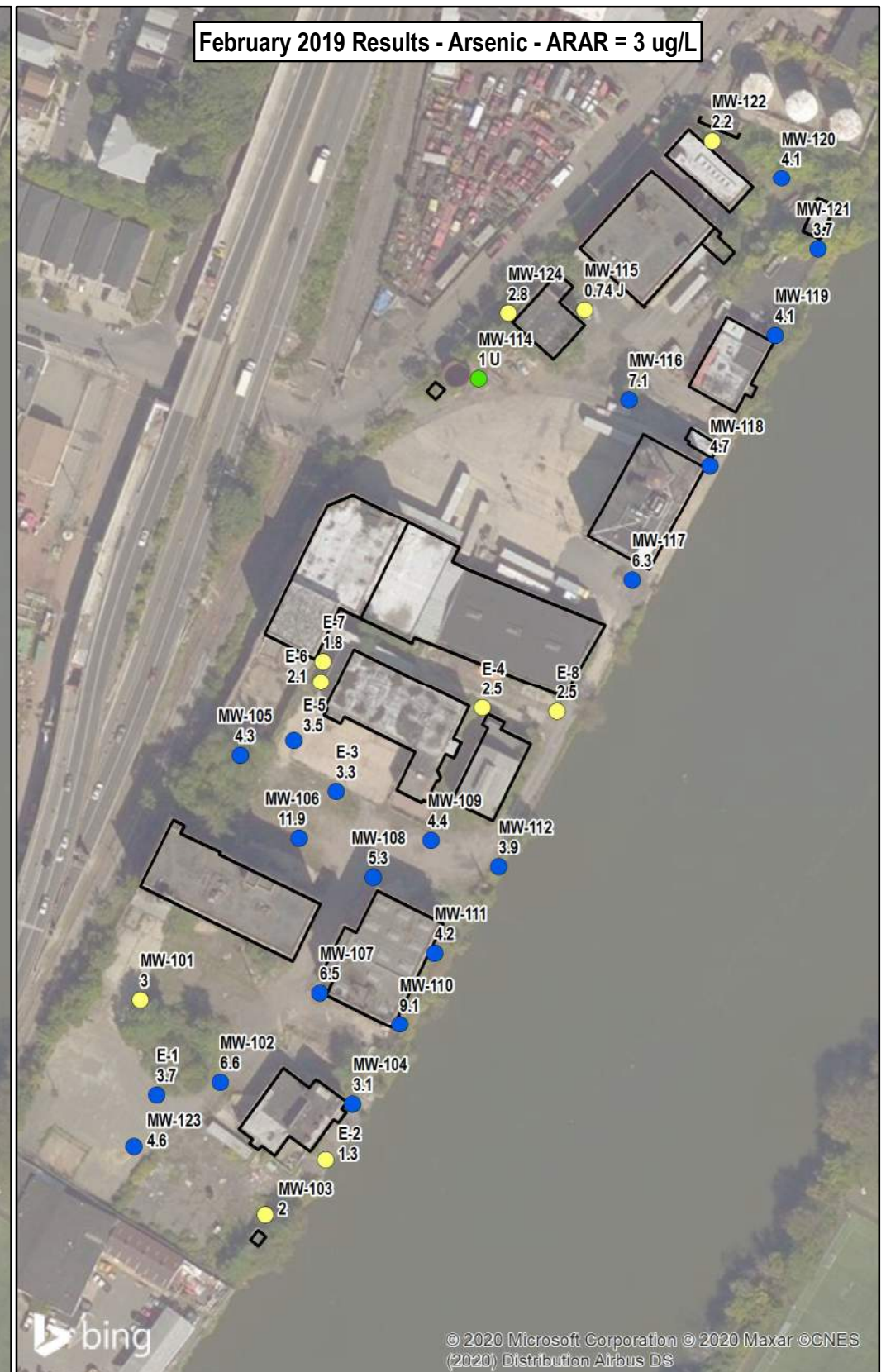
March 2018 Results - Arsenic - ARAR = 3 ug/L



June 2018 Results - Arsenic - ARAR = 3 ug/L



February 2019 Results - Arsenic - ARAR = 3 ug/L



**Figure 3-19**  
**Arsenic**  
**Groundwater Sampling**  
**Results - Fill Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

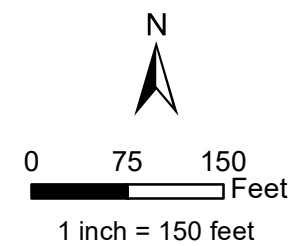
**Legend**

RIFS Groundwater Sampling Results  
(ug/L)

- Result Not Detected (green)
- Detection Below ARAR
- Detection Exceeds ARAR
- Buildings (Survey)

**Notes:**

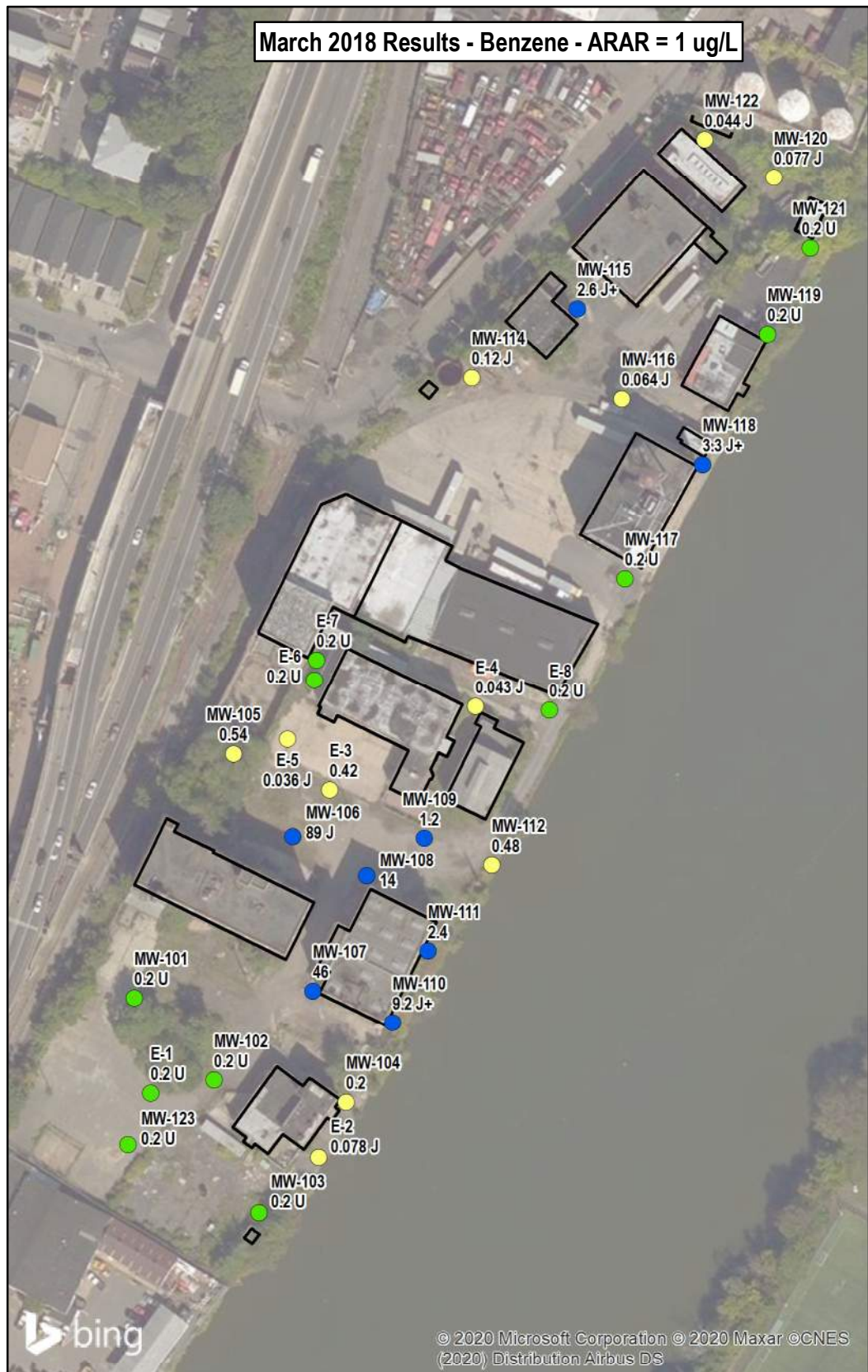
1. See RIR results tables for qualifier definitions.



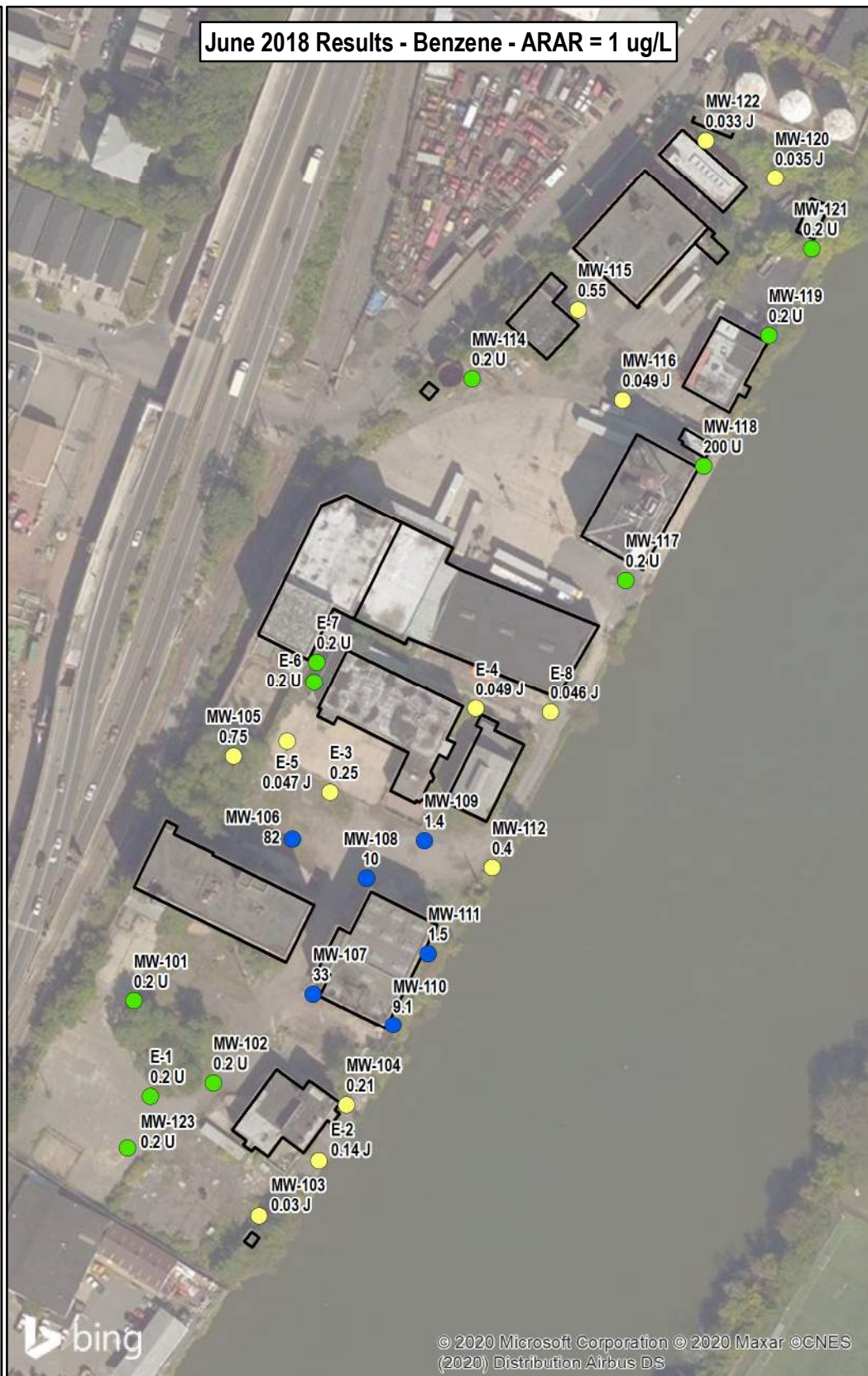
Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.



March 2018 Results - Benzene - ARAR = 1 ug/L



June 2018 Results - Benzene - ARAR = 1 ug/L



February 2019 Results - Benzene - ARAR = 1 ug/L

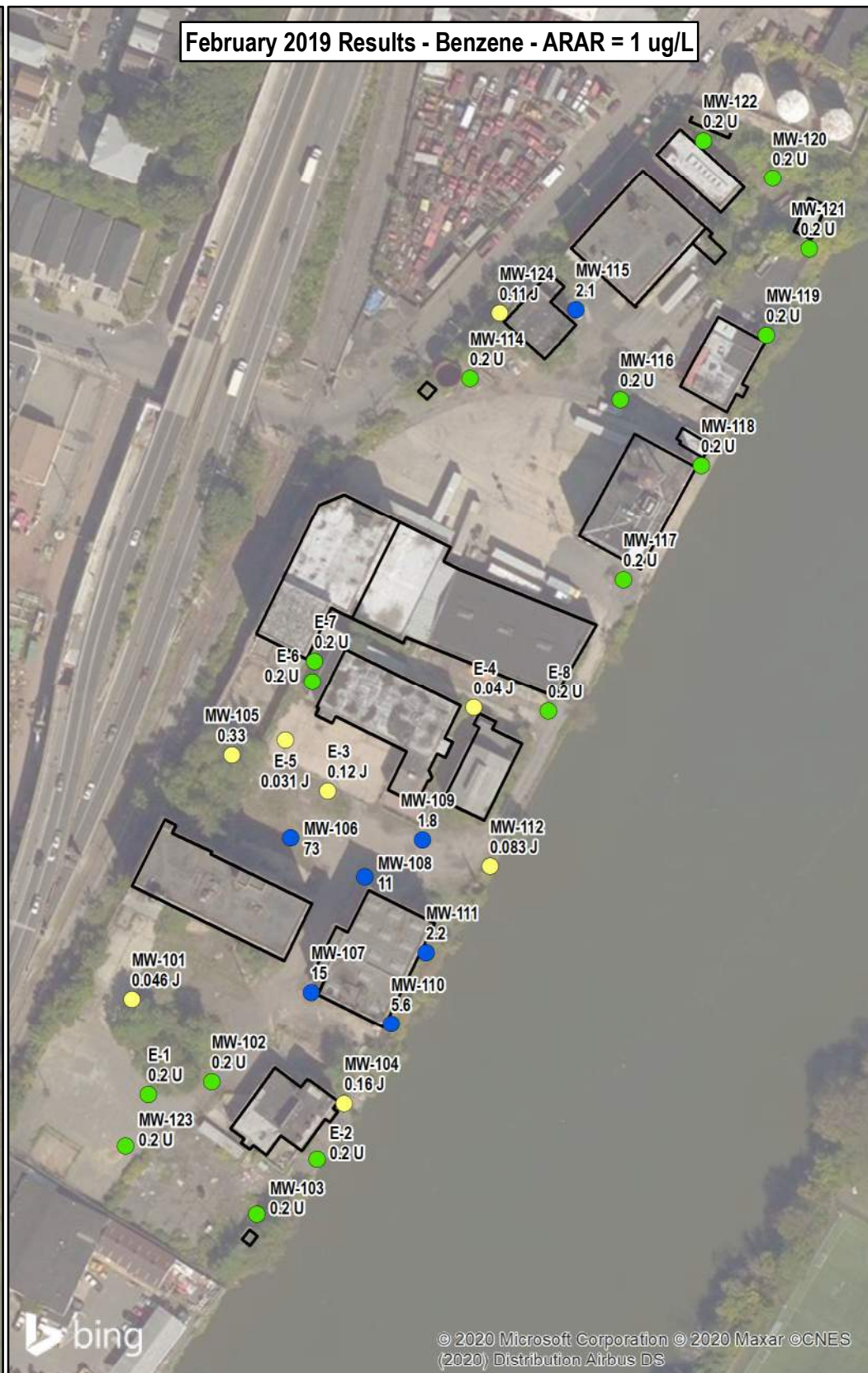


Figure 3-20

**Benzene  
Groundwater Sampling  
Results - Fill Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

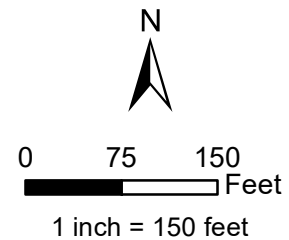
**Legend**

RIFS Groundwater Sampling Results  
(ug/L)

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)

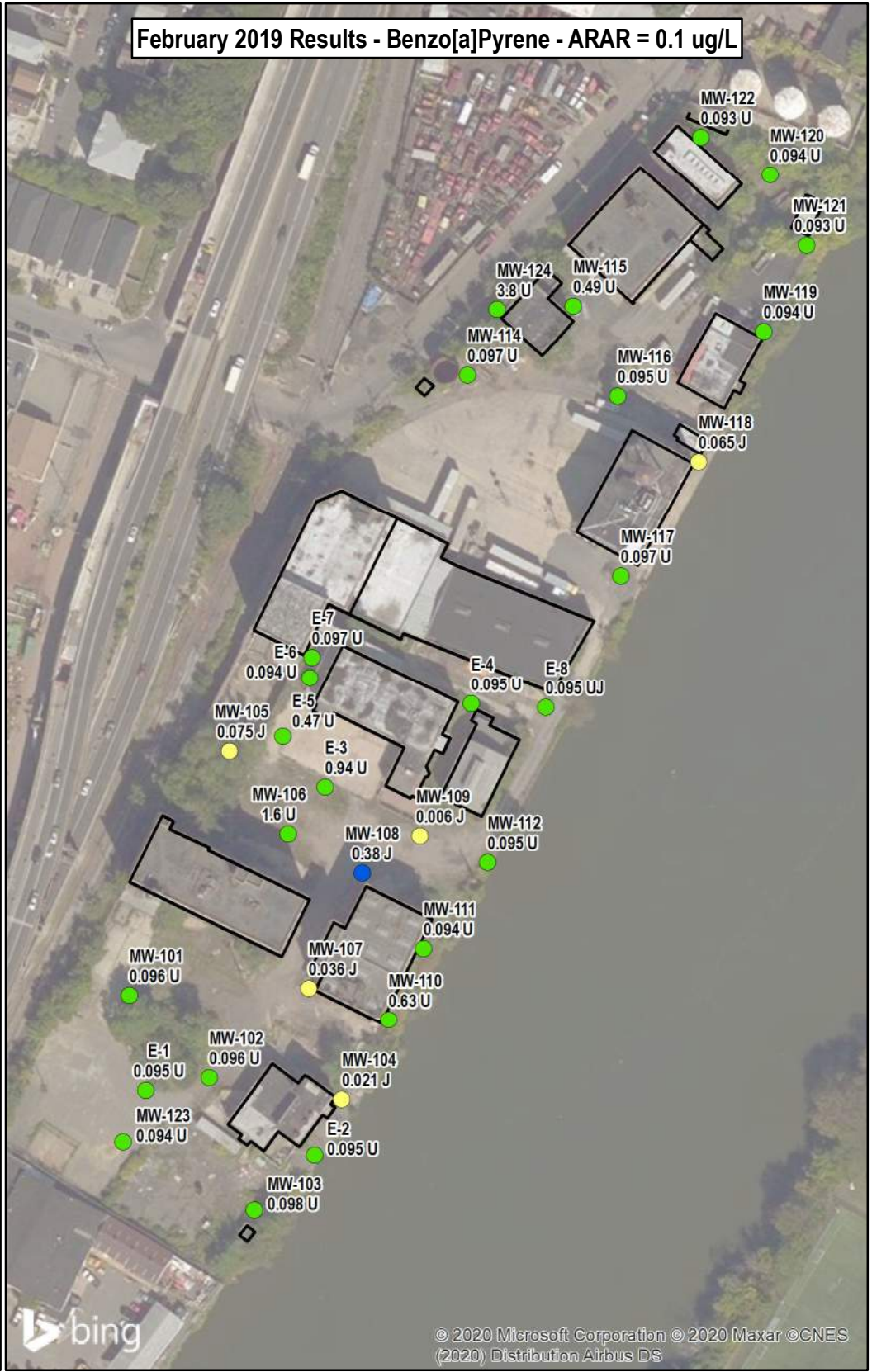
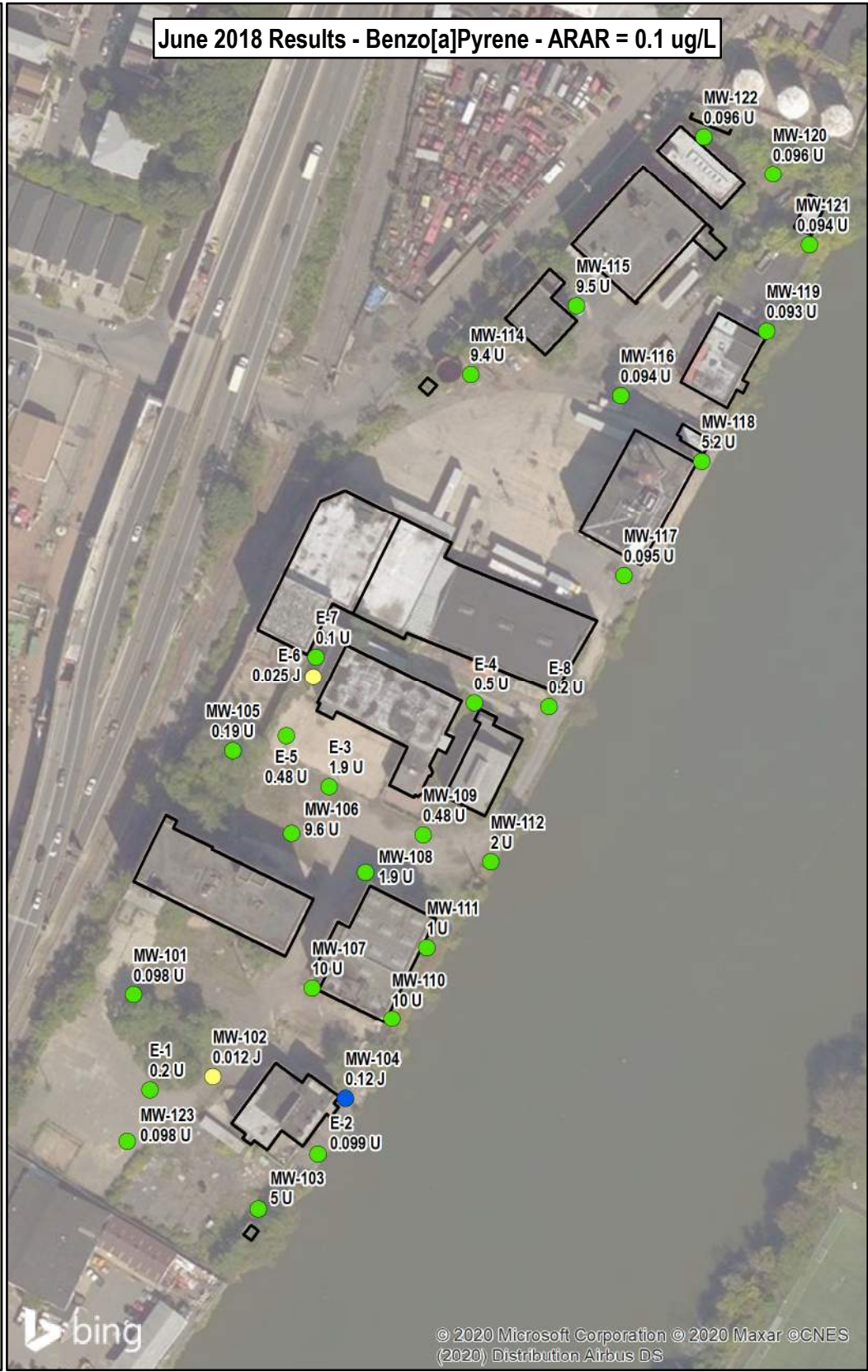
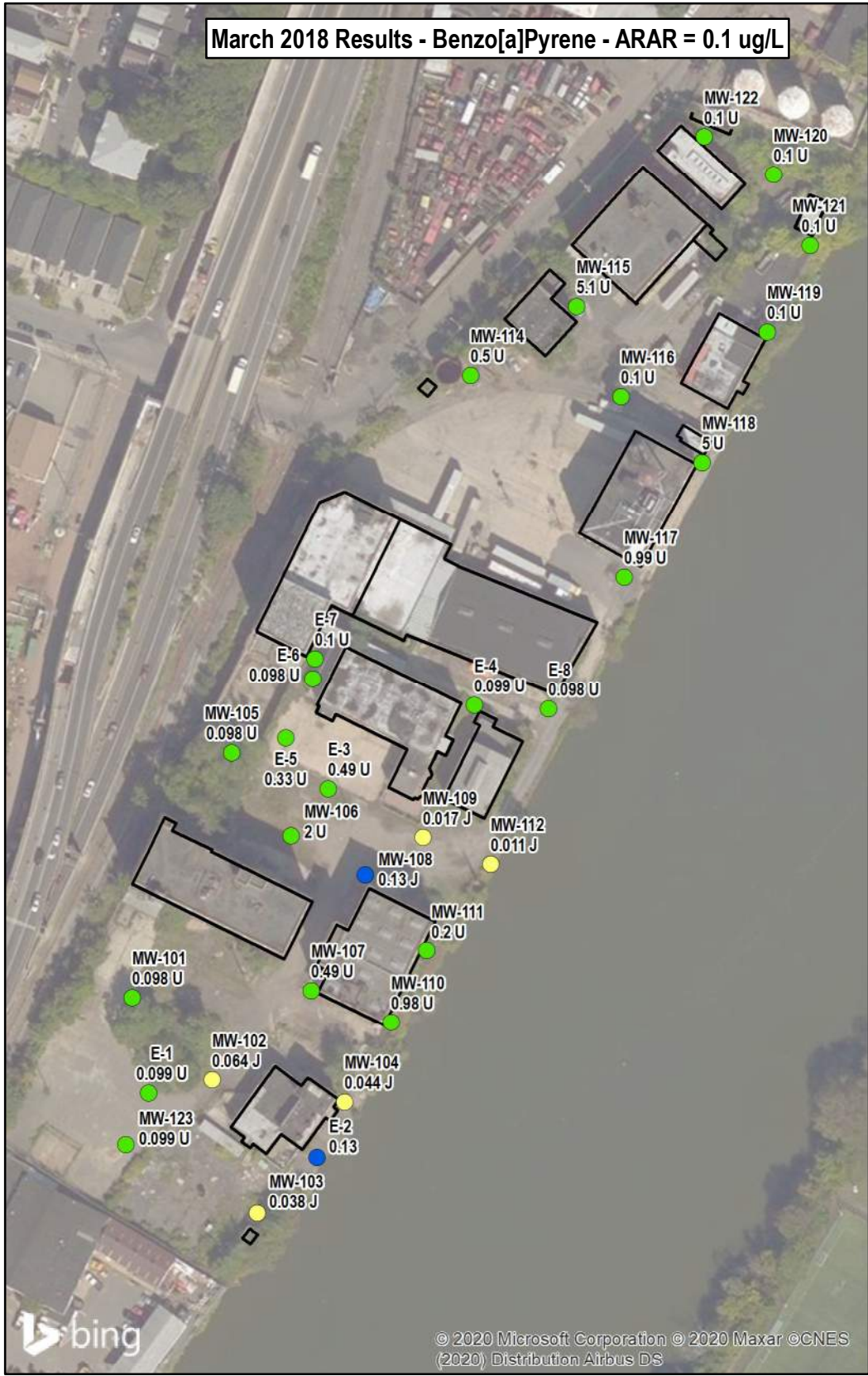
**Notes:**

1. See RIR results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.





**Figure 3-21**  
**Benzo[a]Pyrene**  
**Groundwater Sampling**  
**Results - Fill Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

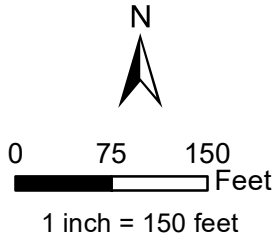
**Legend**

RIFS Groundwater Sampling Results  
(ug/L)

- Result Not Detected (green)
- Detection Below ARAR
- Detection Exceeds ARAR
- Buildings (Survey)

**Notes:**

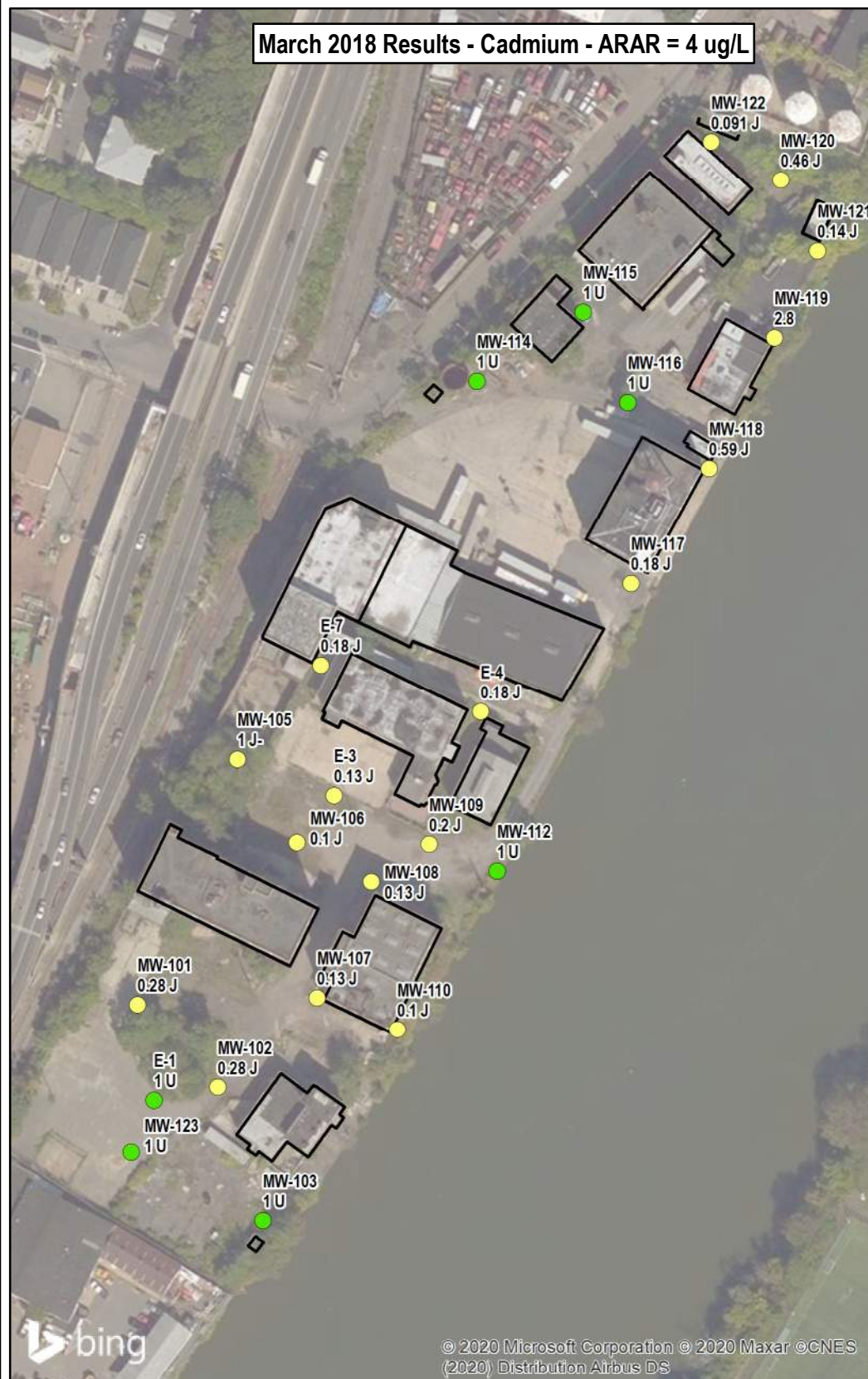
1. See RIR results tables for qualifier definitions.



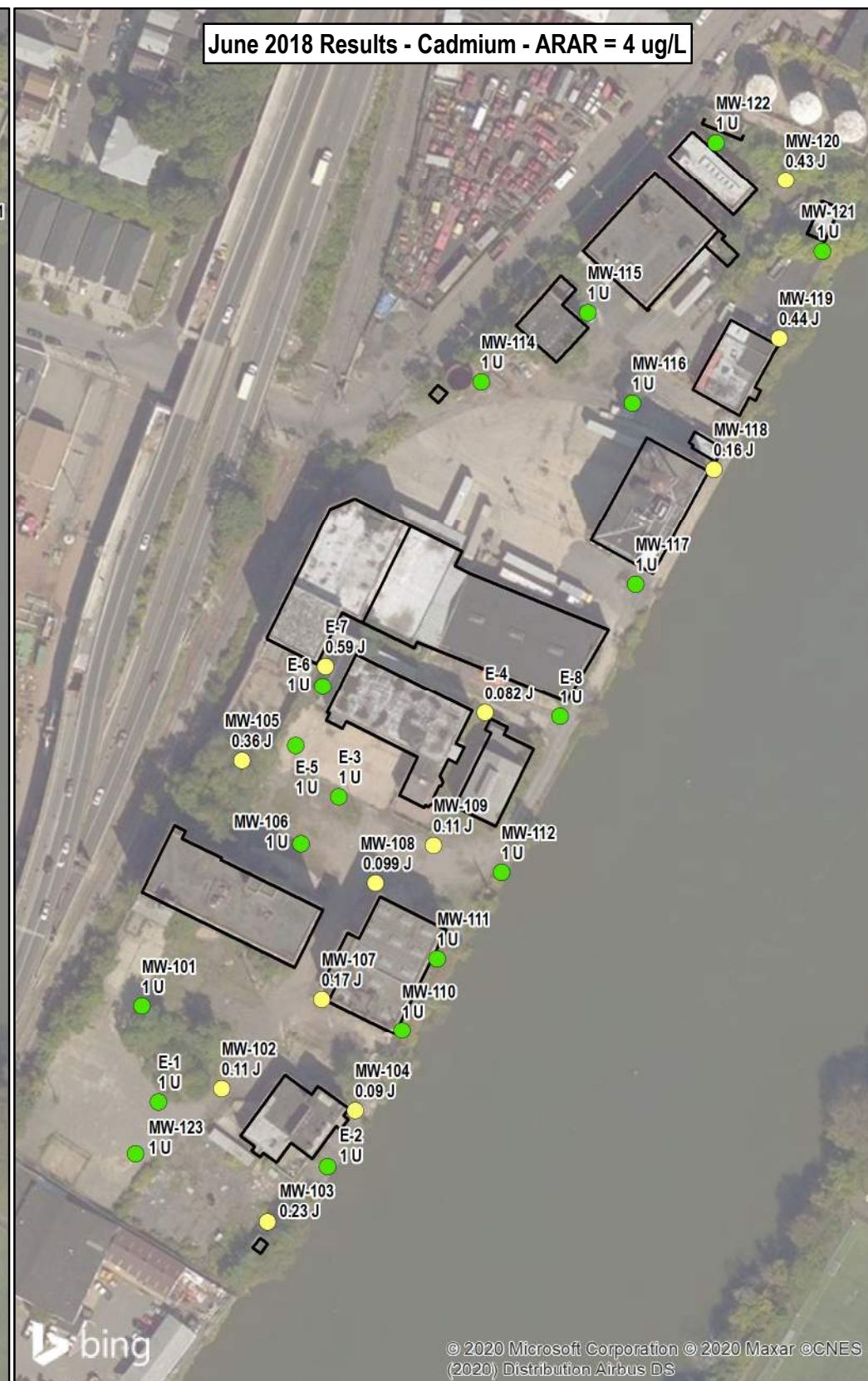
Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.



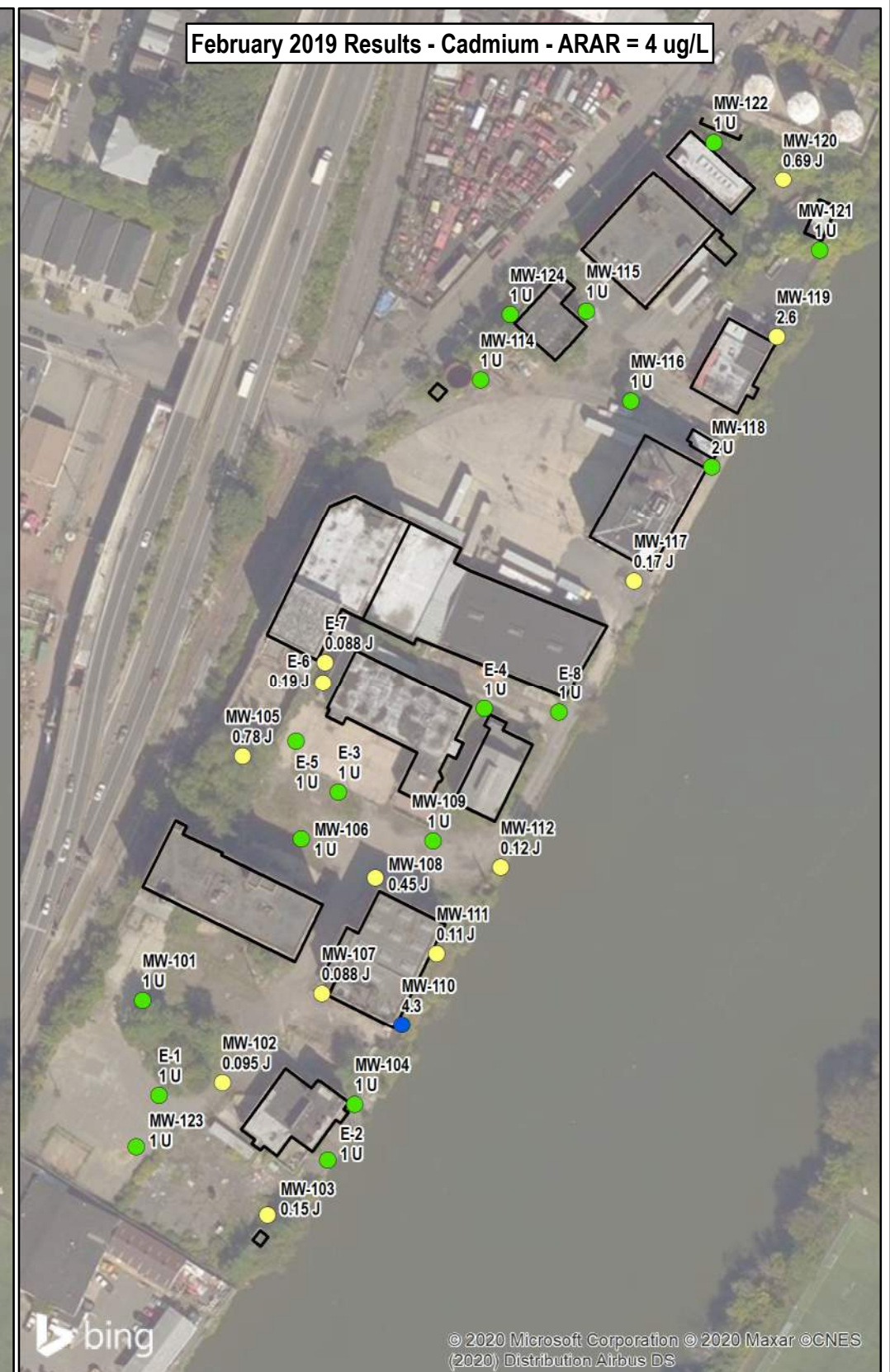
March 2018 Results - Cadmium - ARAR = 4 ug/L



June 2018 Results - Cadmium - ARAR = 4 ug/L



February 2019 Results - Cadmium - ARAR = 4 ug/L



**Figure 3-22**  
**Cadmium**  
**Groundwater Sampling**  
**Results - Fill Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

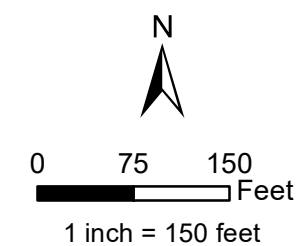
**Legend**

RIFS Groundwater Sampling Results  
(ug/L)

- Result Not Detected (green)
- Detection Below ARAR
- Detection Exceeds ARAR
- Buildings (Survey)

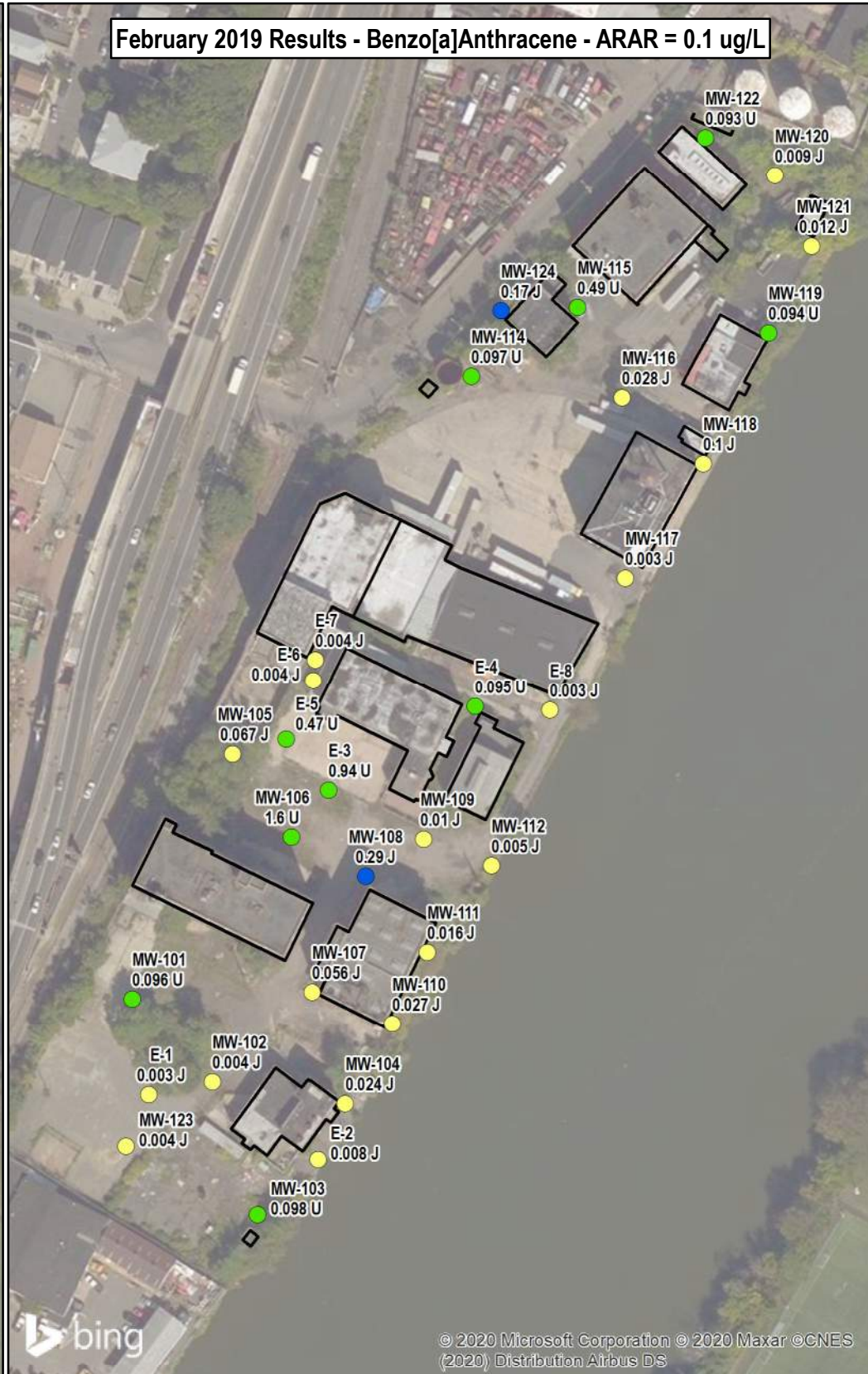
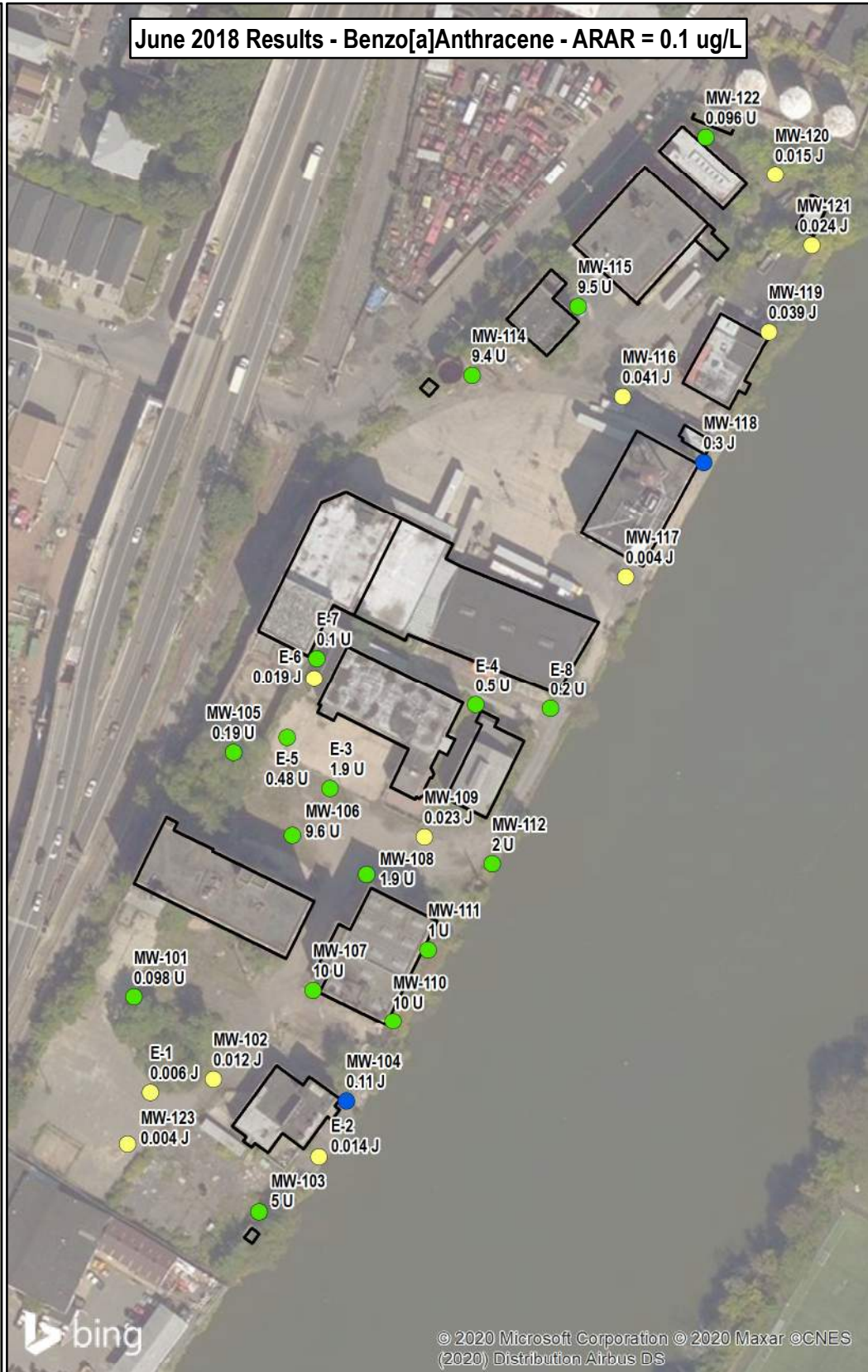
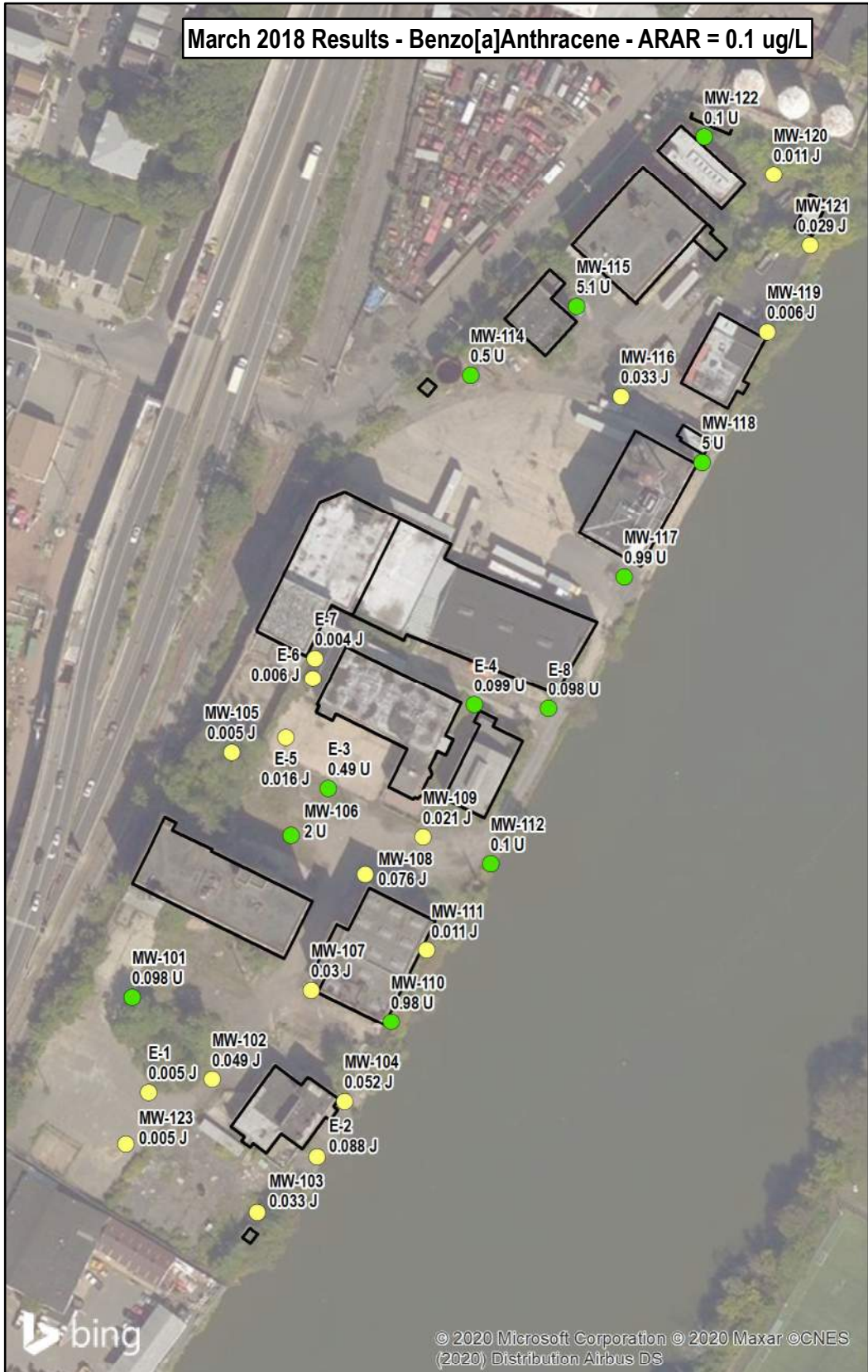
**Notes:**

1. See RIR results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020  
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**Figure 3-23**  
**Benzo[a]Anthracene**  
**Groundwater Sampling**  
**Results - Fill Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

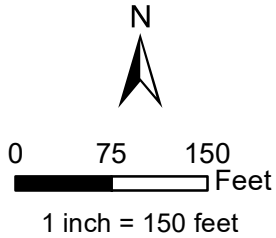
**Legend**

RIFS Groundwater Sampling Results  
(ug/L)

- Result Not Detected (green)
- Detection Below ARAR
- Detection Exceeds ARAR
- Buildings (Survey)

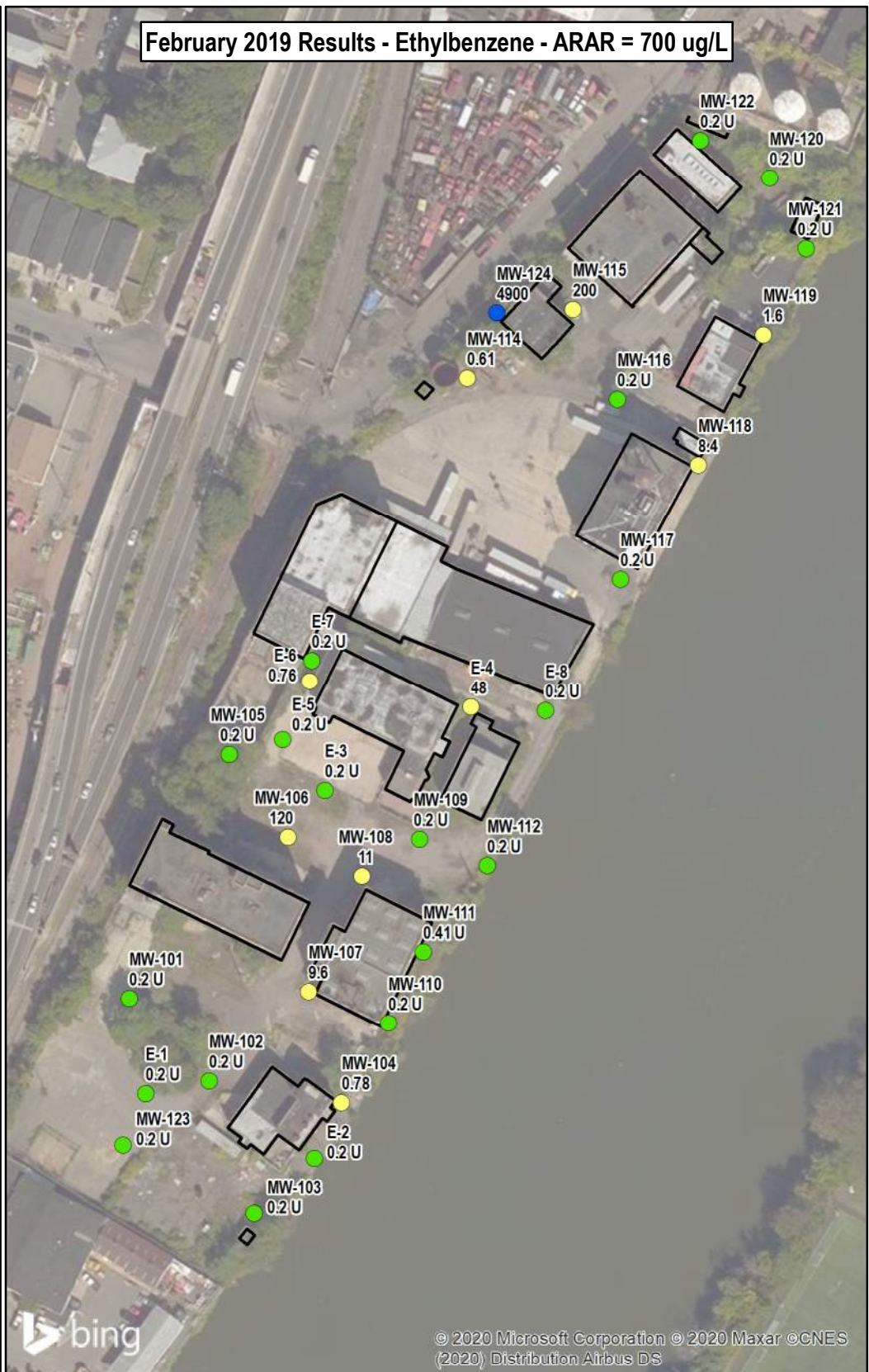
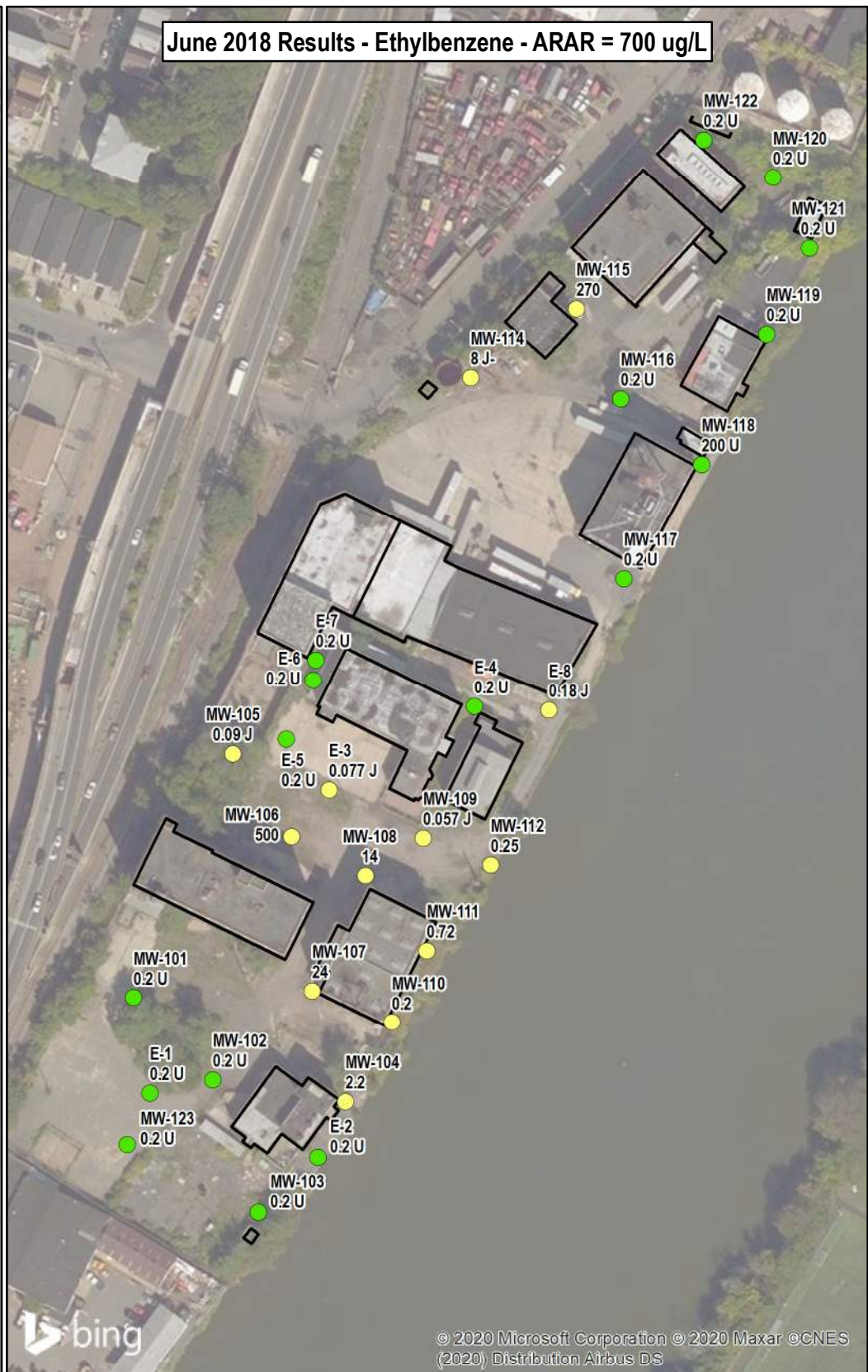
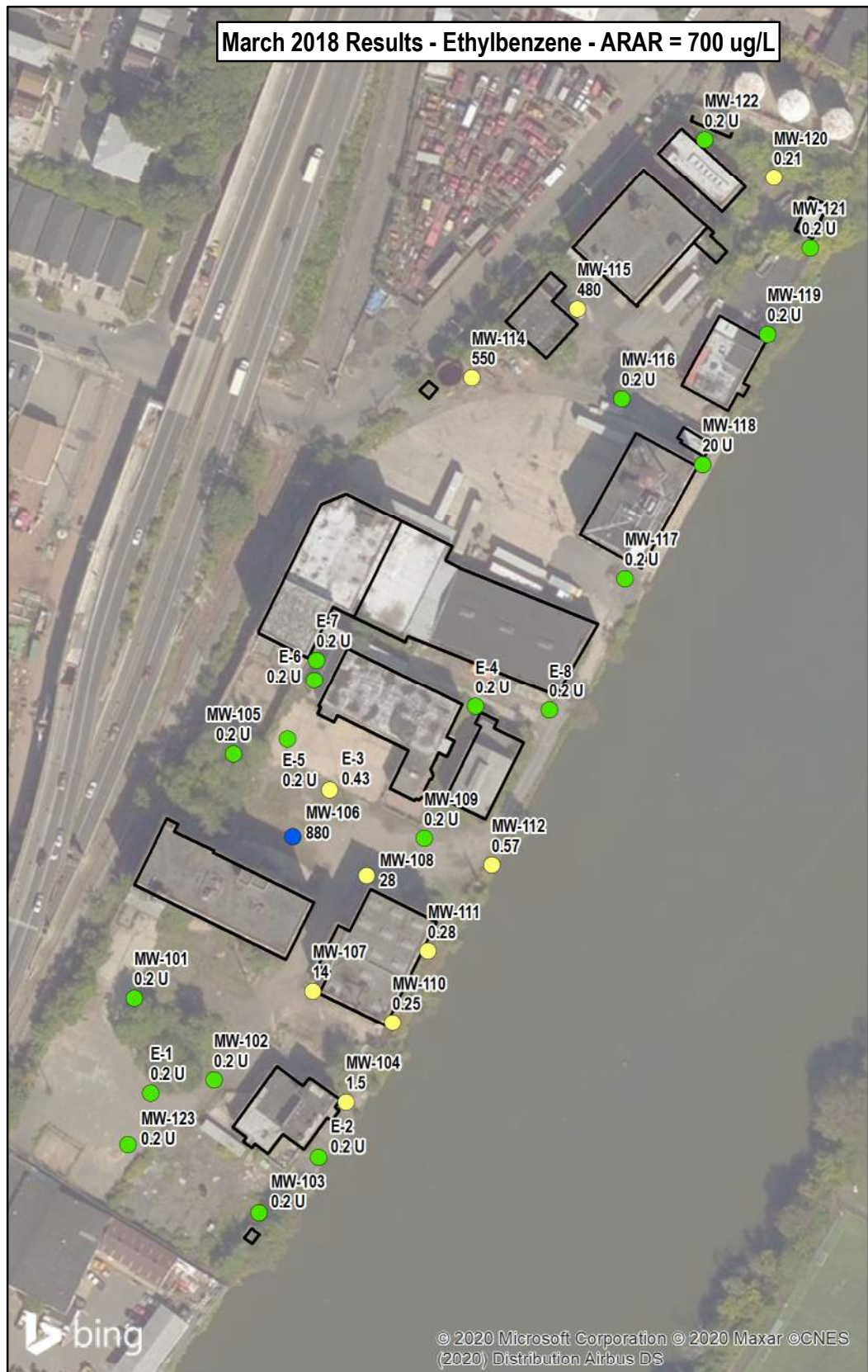
**Notes:**

1. See RIR results tables for qualifier definitions.



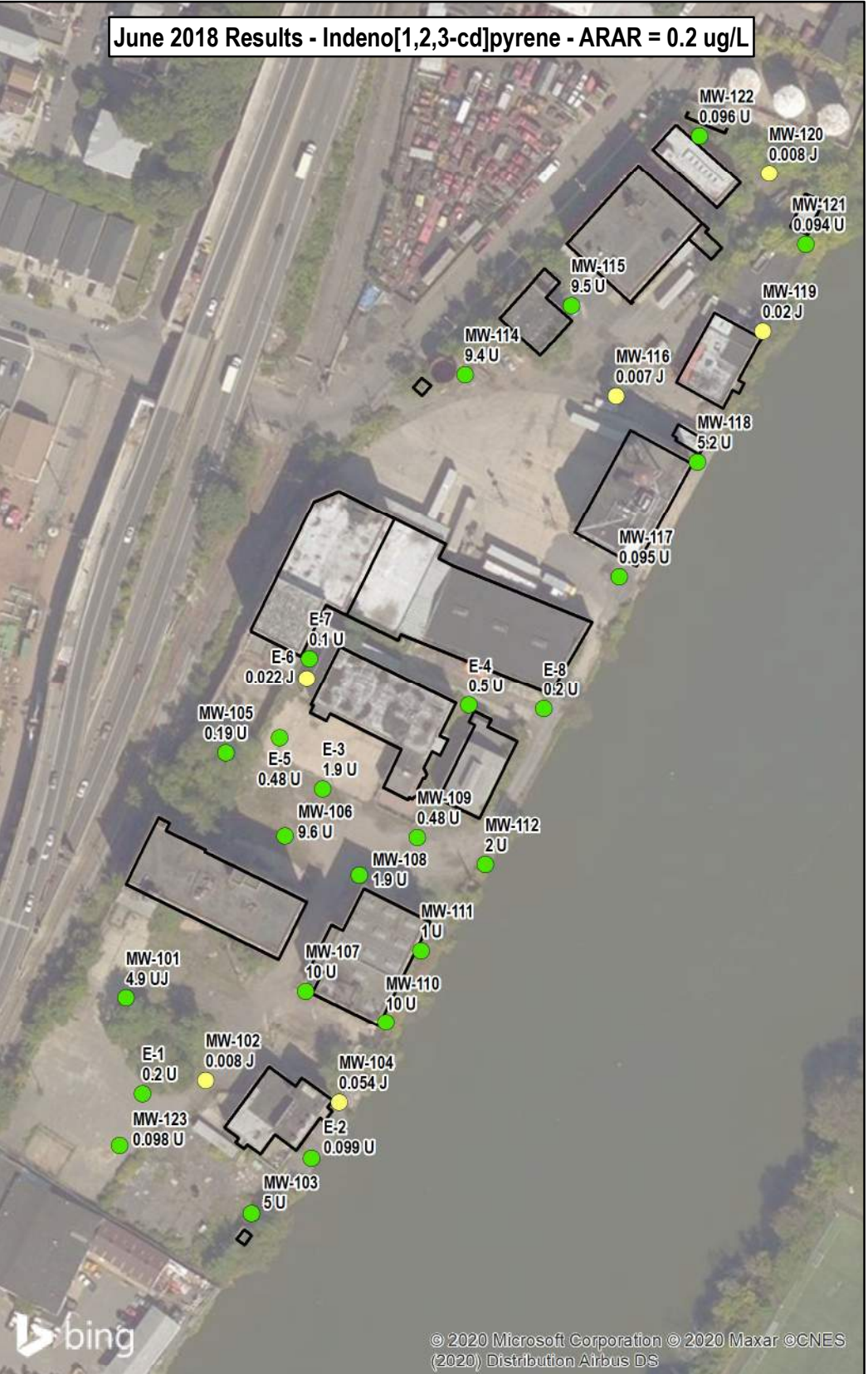
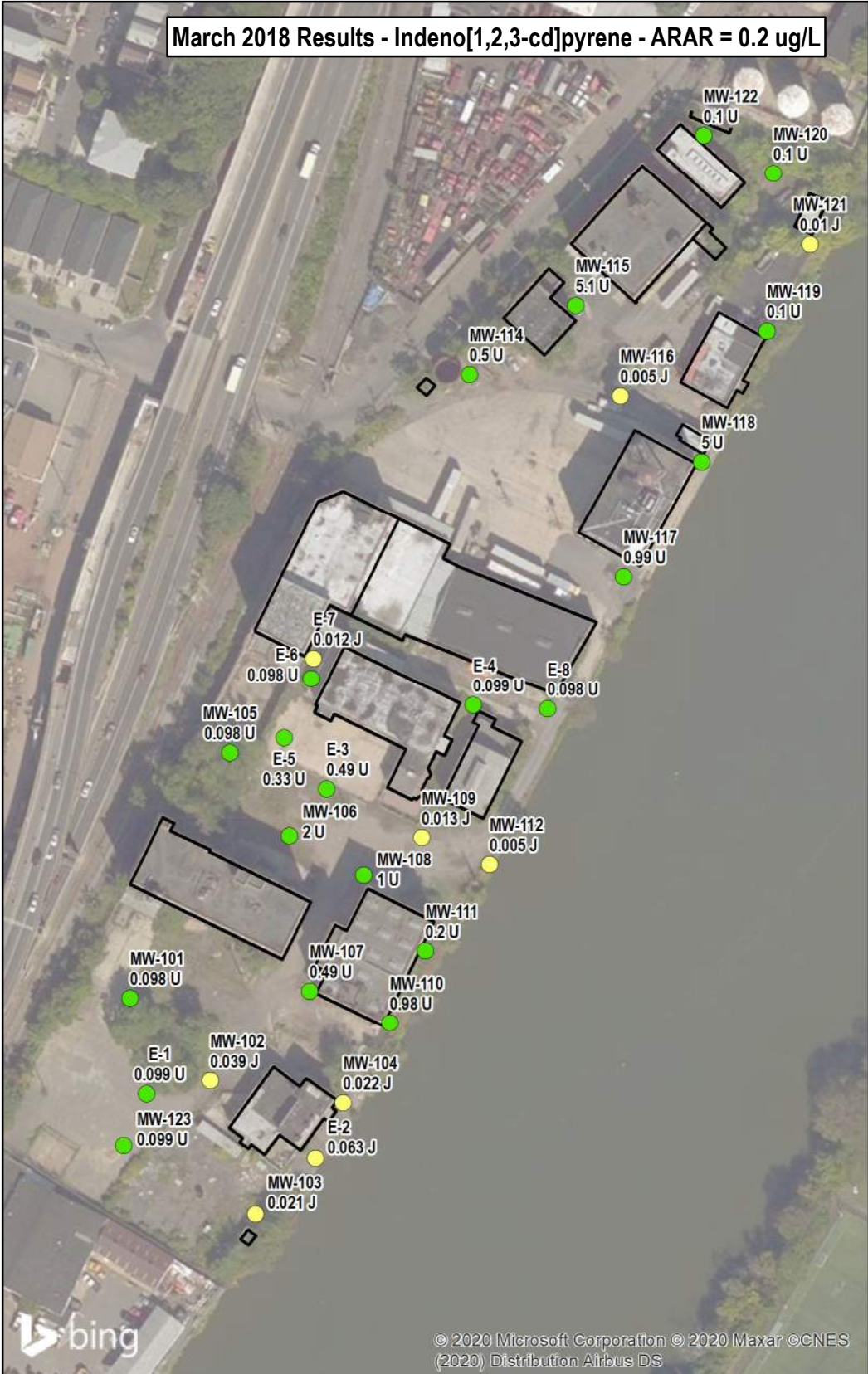
Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.





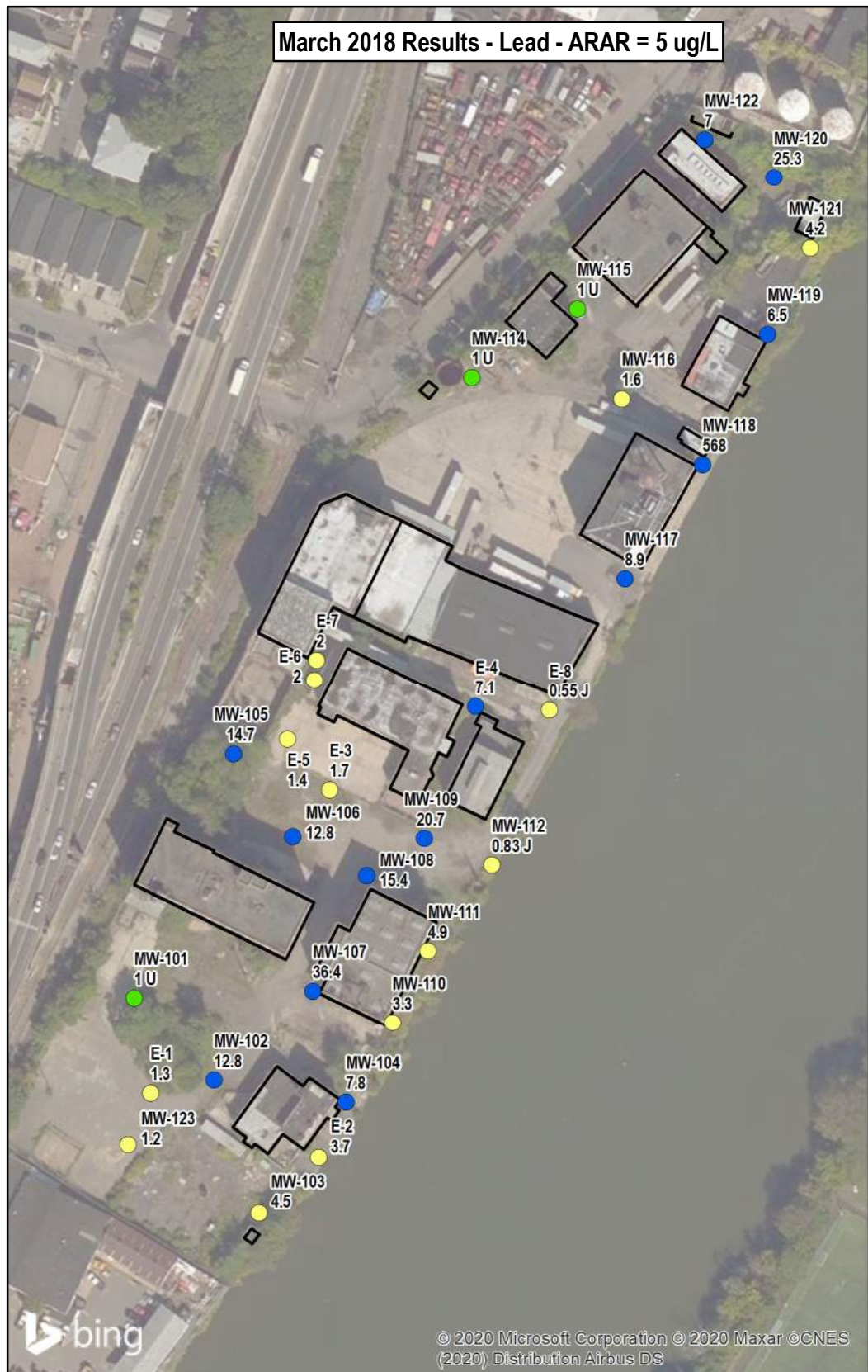
<p><b>Figure 3-24</b></p> <p><b>Ethylbenzene Groundwater Sampling Results - Fill Unit</b></p> <p>Riverside Industrial Park Superfund Site 29 Riverside Avenue City of Newark, New Jersey</p>	<p><b>Legend</b></p> <p>RIFS Groundwater Sampling Results (ug/L)</p> <ul style="list-style-type: none"> <li>● Result Not Detected (green)</li> <li>● Detection Below ARAR (yellow)</li> <li>● Detection Exceeds ARAR (blue)</li> <li>— Buildings (Survey)</li> </ul>	<p><b>Notes:</b></p> <p>1. See RIR results tables for qualifier definitions.</p>	<p style="text-align: center;">N</p> <p style="text-align: center;">0      75      150 Feet</p> <p style="text-align: center;">1 inch = 150 feet</p>	<p>Project #: 0013620 Map Created: June 2020</p> <p>Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.</p>
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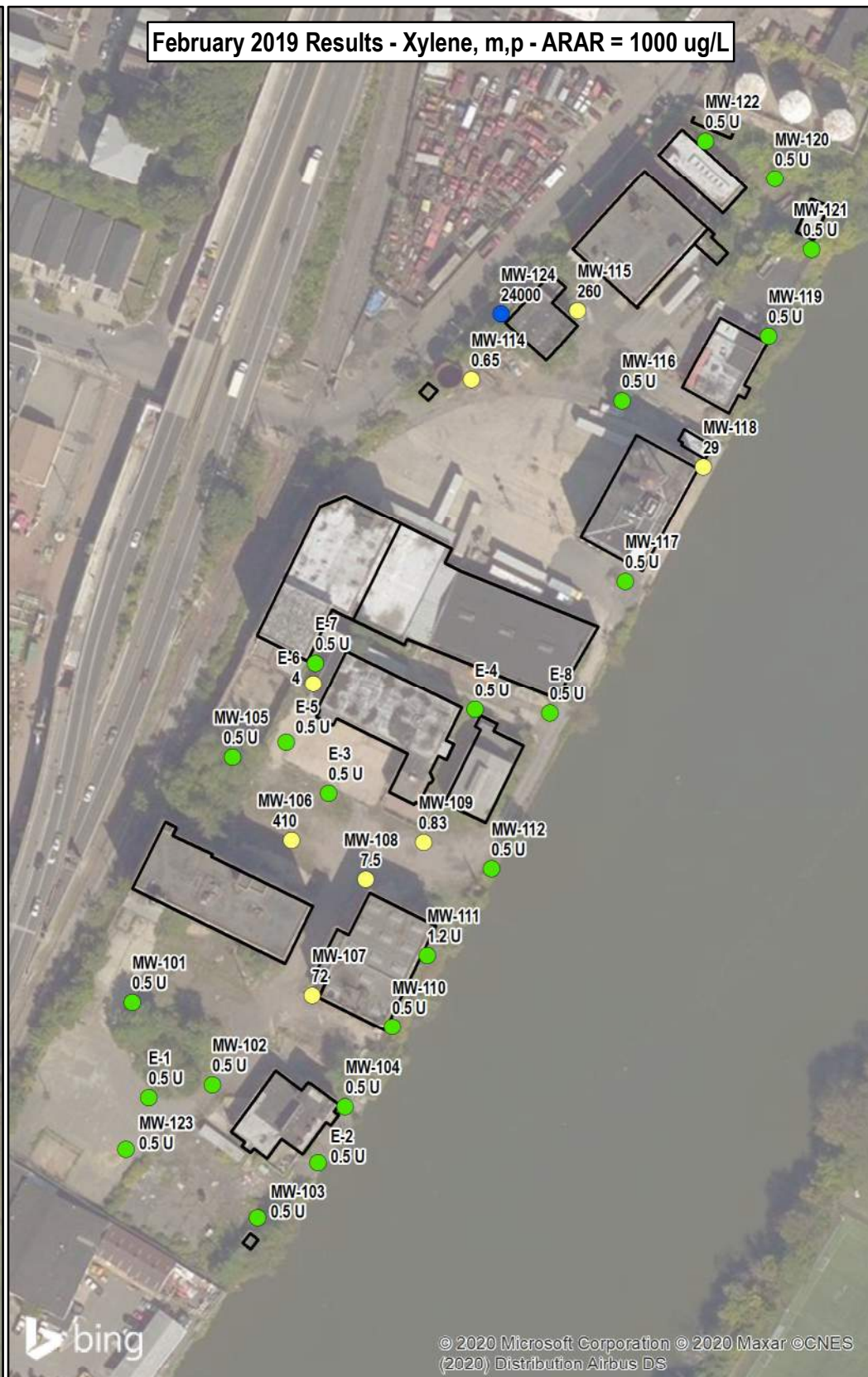
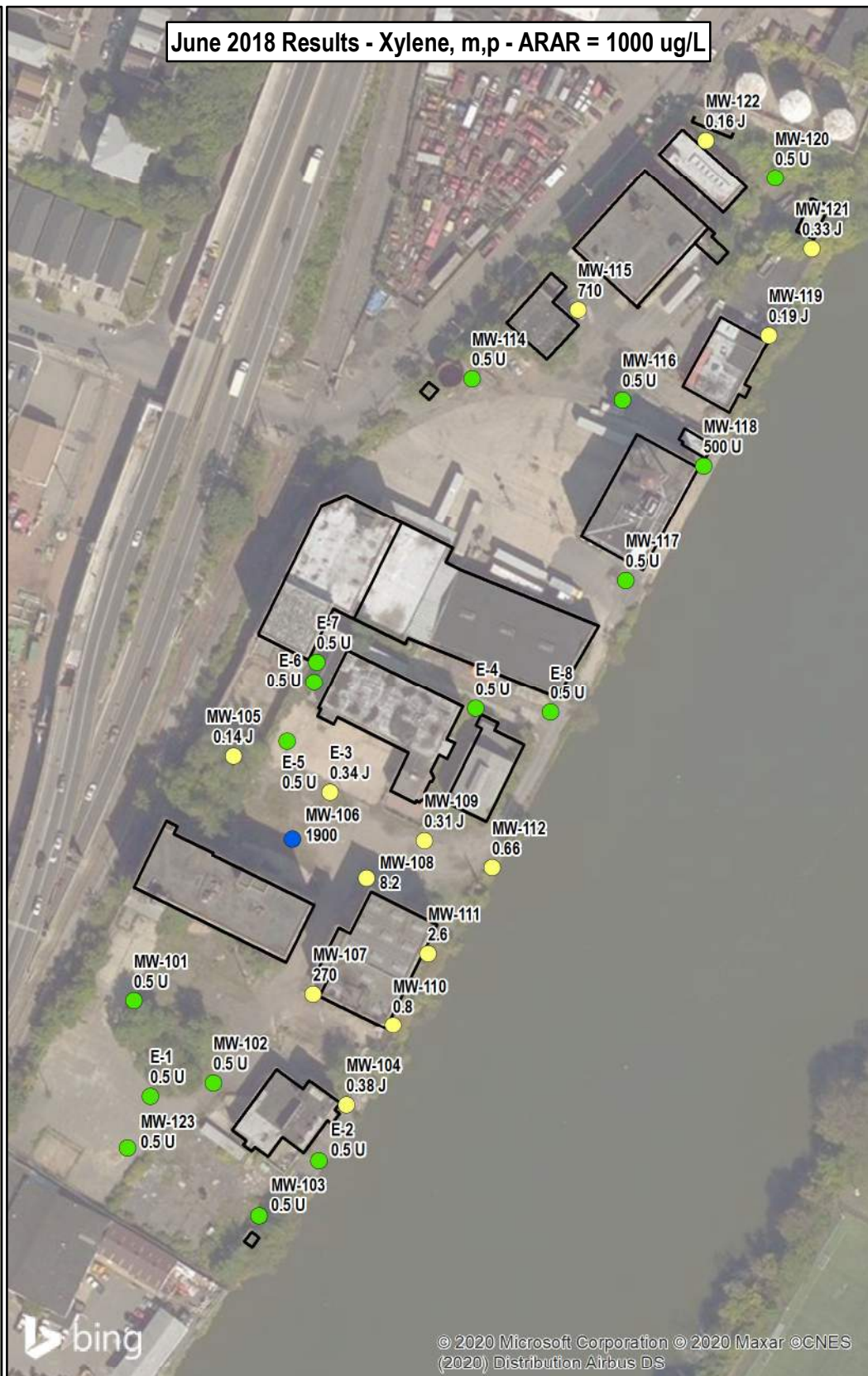
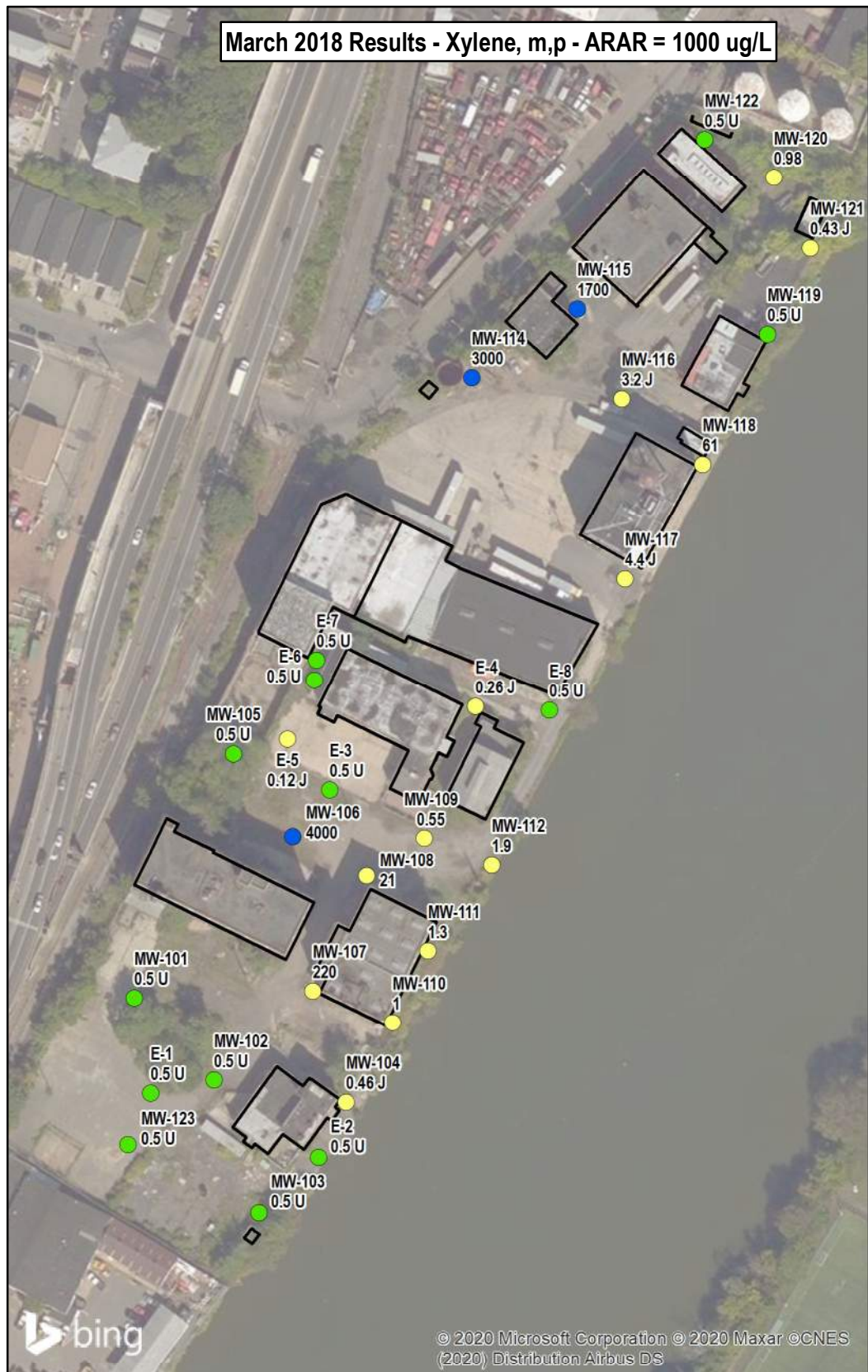
<p><b>Figure 3-25</b></p> <p><b>Indeno[1,2,3-cd]pyrene</b></p> <p><b>Groundwater Sampling</b></p> <p><b>Results - Fill Unit</b></p> <p>Riverside Industrial Park Superfund Site 29 Riverside Avenue City of Newark, New Jersey</p>	<p><b>Legend</b></p> <p>RIFS Groundwater Sampling Results (ug/L)</p> <ul style="list-style-type: none"><li>● Result Not Detected (green)</li><li>● Detection Below ARAR</li><li>● Detection Exceeds ARAR</li><li>— Buildings (Survey)</li></ul>	<p><b>Notes:</b></p> <p>1. See RIR results tables for qualifier definitions.</p>	<p>N</p> <p>0 75 150 Feet</p> <p>1 inch = 150 feet</p>	<p>Project #: 0013620 Map Created: June 2020</p> <p>Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.</p>
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<p><b>Figure 3-26</b></p> <p><b>Lead Groundwater Sampling Results - Fill Unit</b></p> <p>Riverside Industrial Park Superfund Site 29 Riverside Avenue City of Newark, New Jersey</p>	<p><b>Legend</b></p> <p>RIFS Groundwater Sampling Results (ug/L)</p> <ul style="list-style-type: none"> <li>● Result Not Detected (green)</li> <li>● Detection Below ARAR</li> <li>● Detection Exceeds ARAR</li> <li>— Buildings (Survey)</li> </ul>	<p><b>Notes:</b></p> <p>1. See RIR results tables for qualifier definitions.</p>	<p><b>Scale:</b></p> <p>0 75 150 Feet</p> <p>1 inch = 150 feet</p>	<p>Project #: 0013620 Map Created: June 2020</p> <p>Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.</p>
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**Figure 3-27**  
**Xylene, m,p**  
**Groundwater Sampling**  
**Results - Fill Unit**

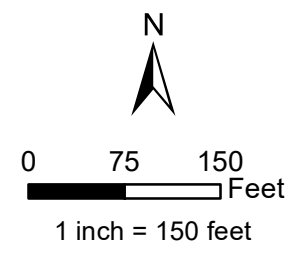
Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

**Legend**

- RIFS Groundwater Sampling Results (ug/L)
- Result Not Detected (green)
  - Detection Below ARAR
  - Detection Exceeds ARAR
  - Buildings (Survey)

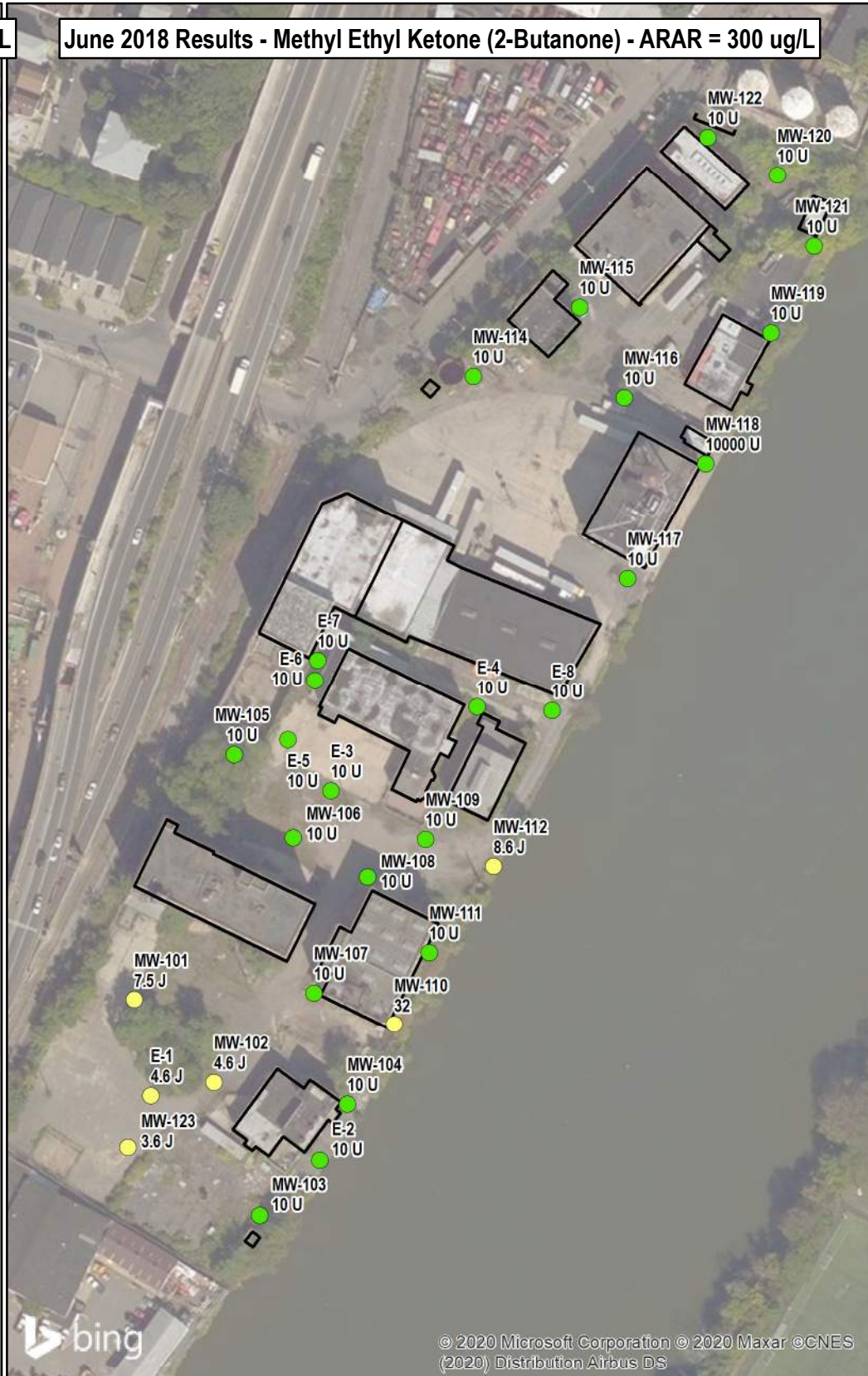
**Notes:**

1. See RIR results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.

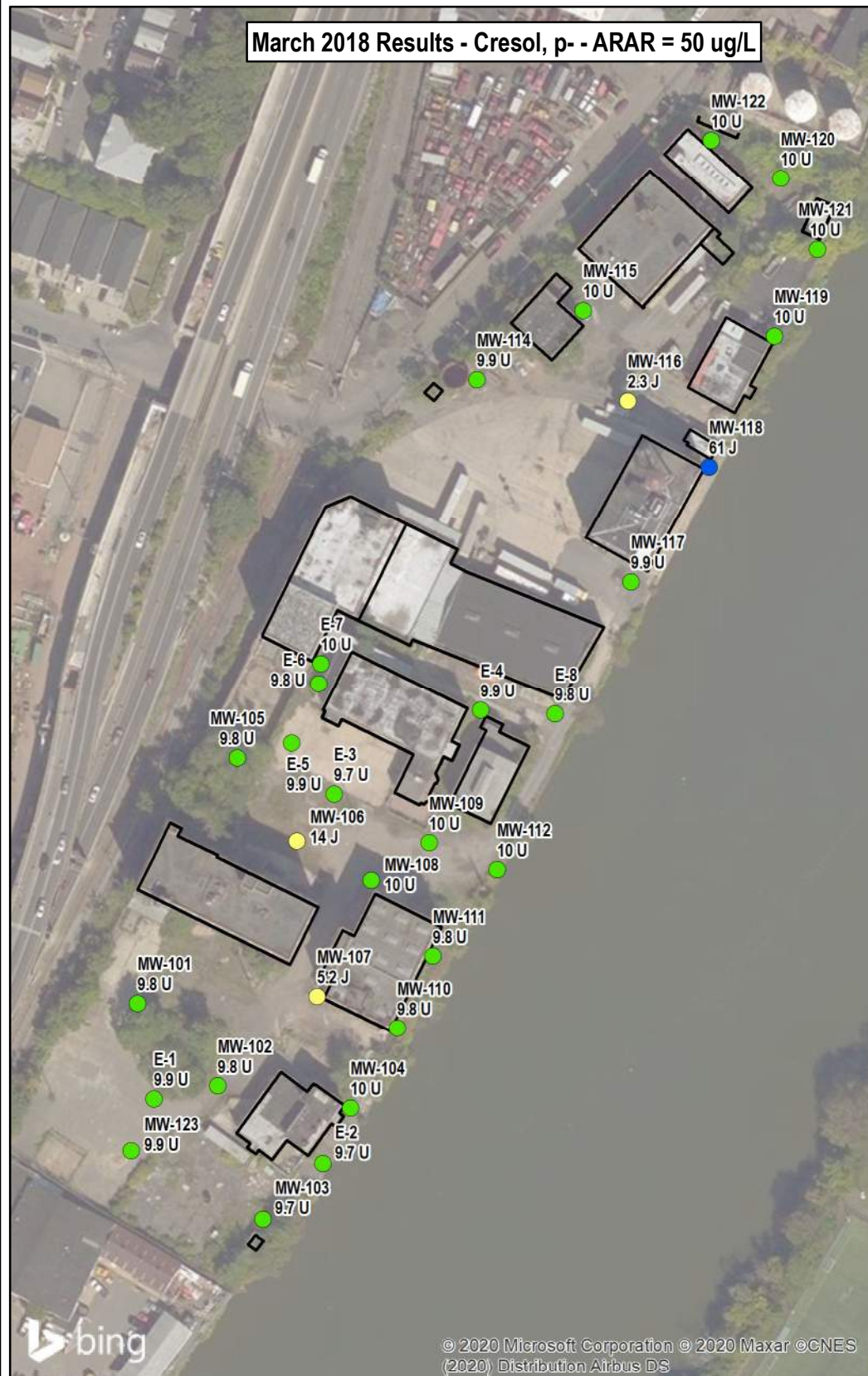




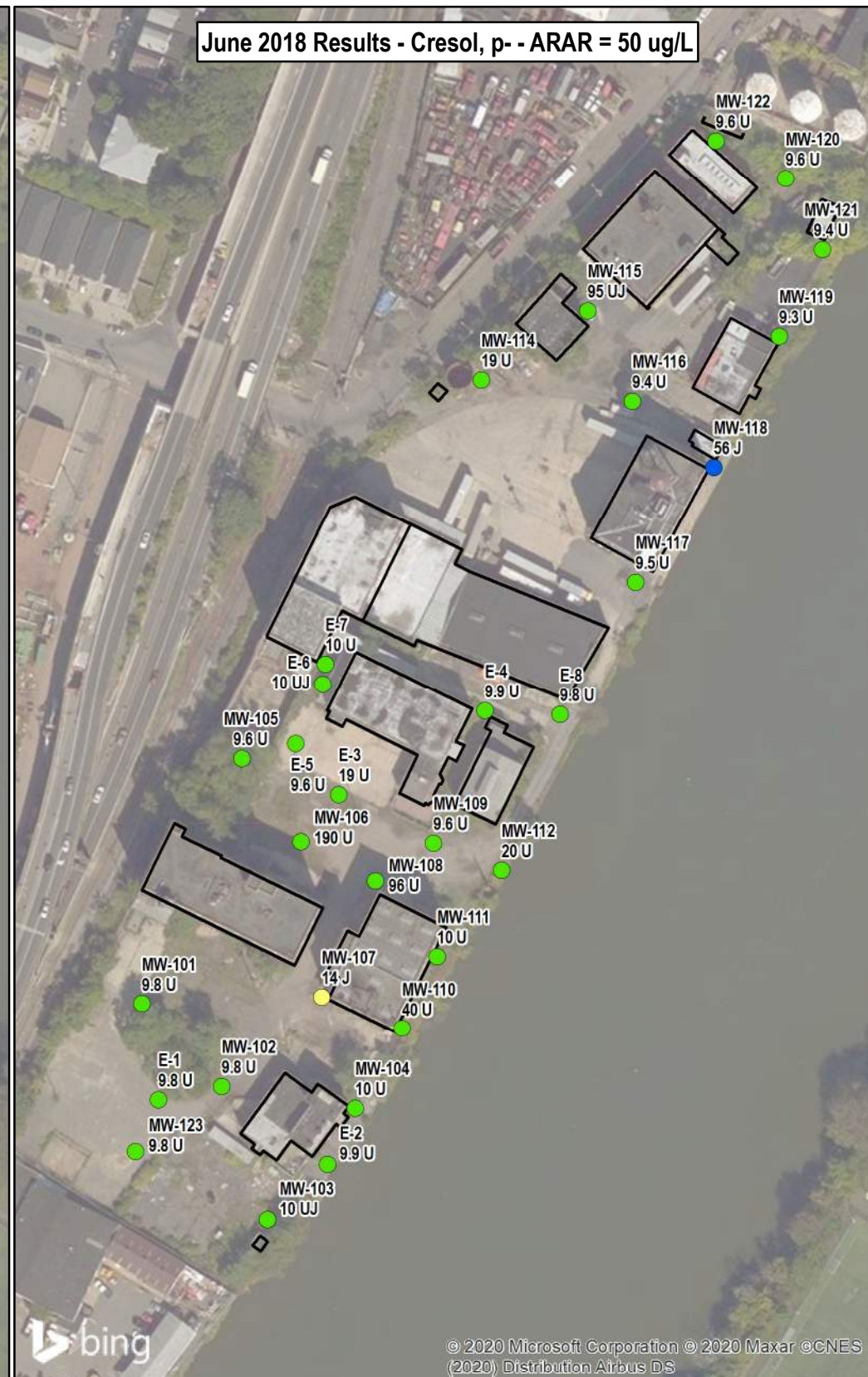
<p><b>Figure 3-28</b></p> <p><b>Methyl Ethyl Ketone (2-Butanone)</b></p> <p><b>Groundwater Sampling</b></p> <p><b>Results - Fill Unit</b></p> <p>Riverside Industrial Park Superfund Site 29 Riverside Avenue City of Newark, New Jersey</p>	<p><b>Legend</b></p> <p>RIFS Groundwater Sampling Results (ug/L)</p> <ul style="list-style-type: none"><li>● Result Not Detected (green)</li><li>● Detection Below ARAR</li><li>● Detection Exceeds ARAR</li><li>— Buildings (Survey)</li></ul>	<p><b>Notes:</b></p> <p>1. See RIR results tables for qualifier definitions.</p>	<p>N</p> <p>0 75 150 Feet</p> <p>1 inch = 150 feet</p>	<p>Project #: 0013620 Map Created: June 2020</p> <p>Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.</p>
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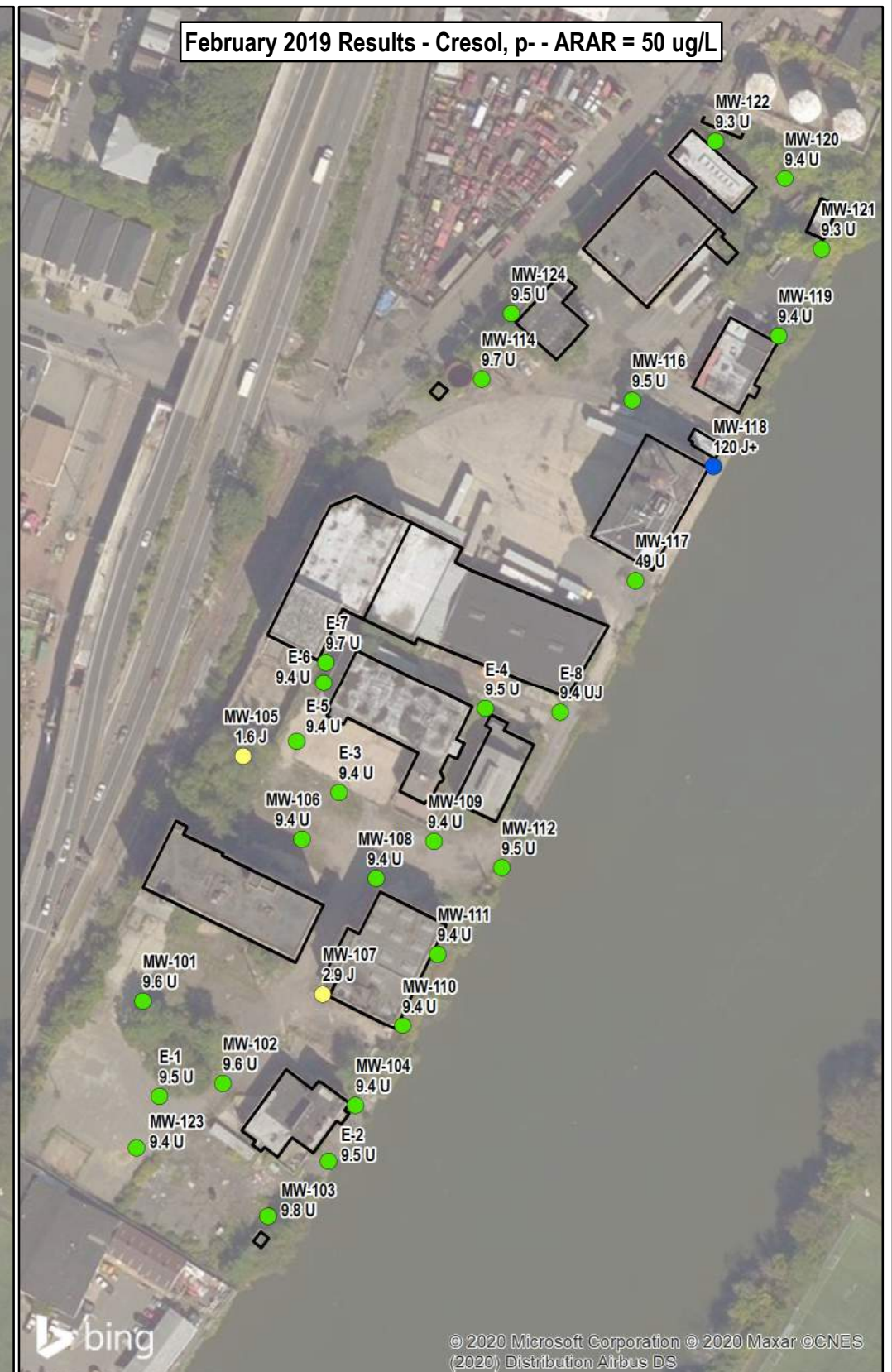
March 2018 Results - Cresol, p- - ARAR = 50 ug/L



June 2018 Results - Cresol, p- - ARAR = 50 ug/L



February 2019 Results - Cresol, p- - ARAR = 50 ug/L



**Figure 3-29**  
**Cresol, p-**  
**Groundwater Sampling**  
**Results - Fill Unit**

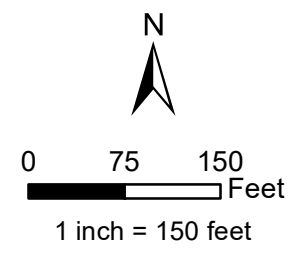
Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

**Legend**

- RIFS Groundwater Sampling Results (ug/L)
- Result Not Detected (green)
  - Detection Below ARAR
  - Detection Exceeds ARAR
  - Buildings (Survey)

**Notes:**

1. See RIR results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020  
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**Figure 3-30**  
**Pentachlorophenol**  
**Groundwater Sampling**  
**Results - Fill Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

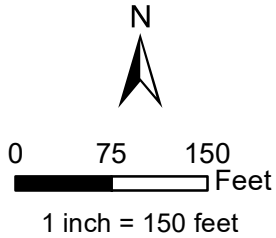
**Legend**

RIFS Groundwater Sampling Results  
(ug/L)

- Result Not Detected (green)
- Detection Below ARAR
- Detection Exceeds ARAR
- Buildings (Survey)

**Notes:**

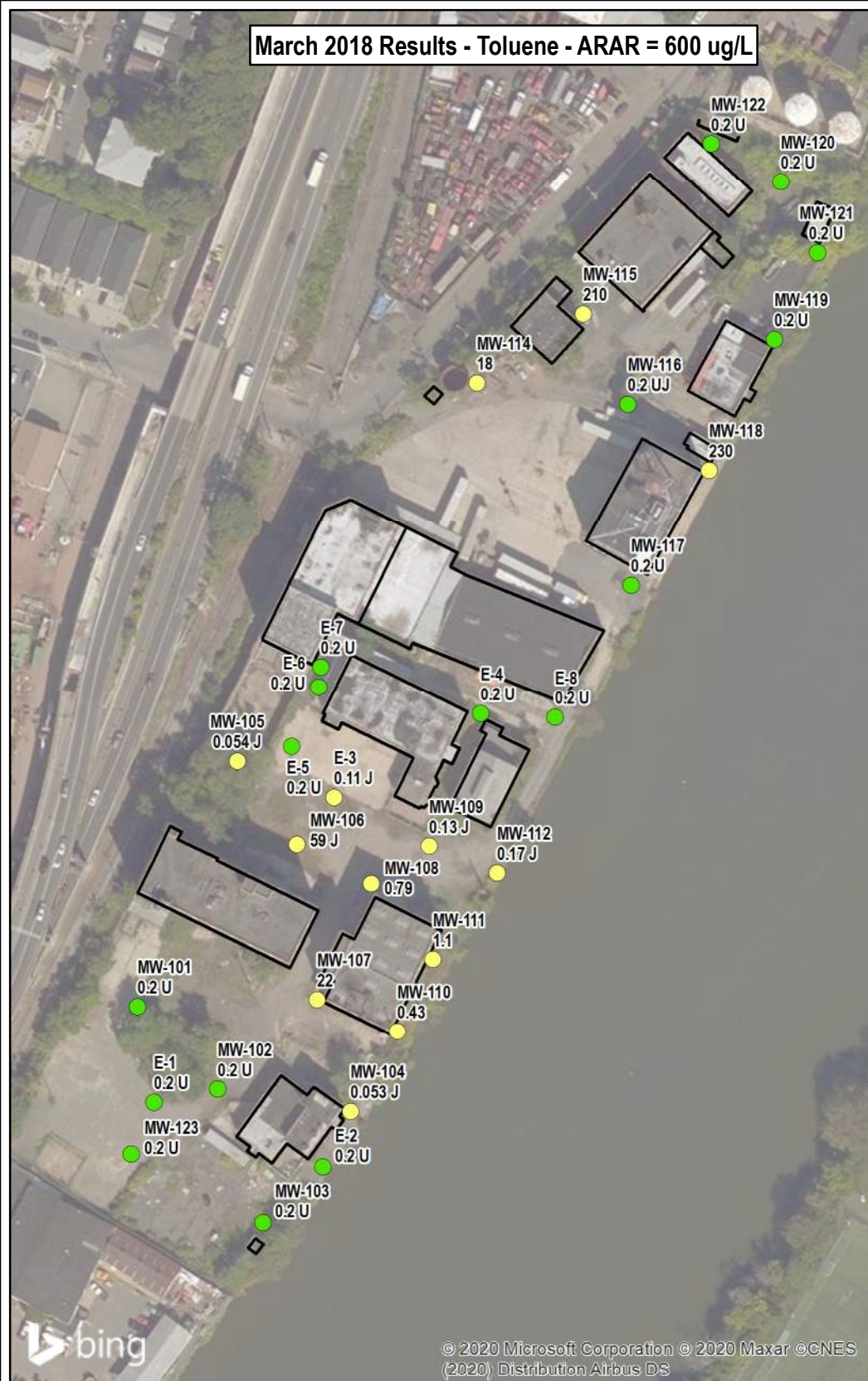
1. See RIR results tables for qualifier definitions.



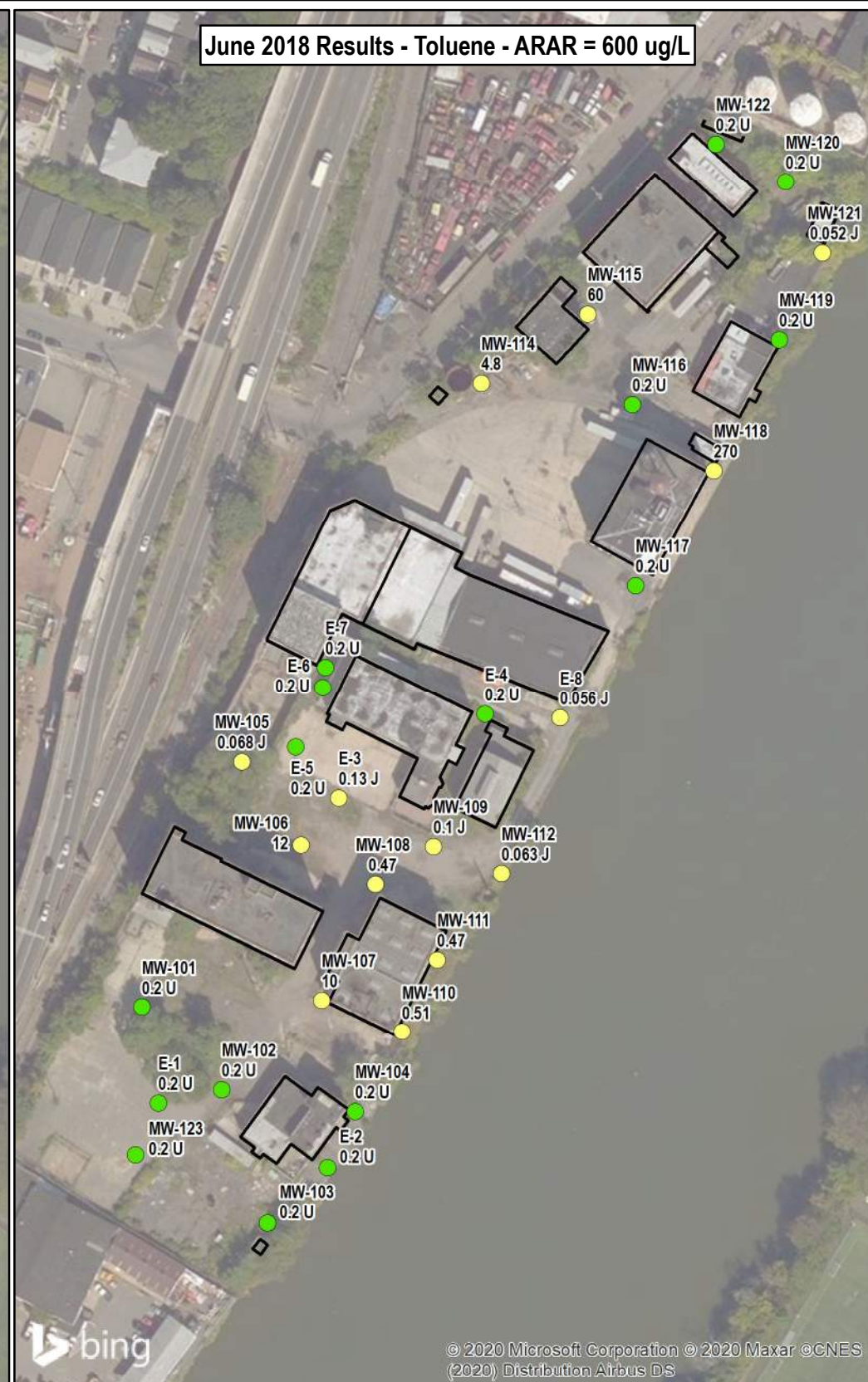
Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.



March 2018 Results - Toluene - ARAR = 600 ug/L



June 2018 Results - Toluene - ARAR = 600 ug/L



February 2019 Results - Toluene - ARAR = 600 ug/L

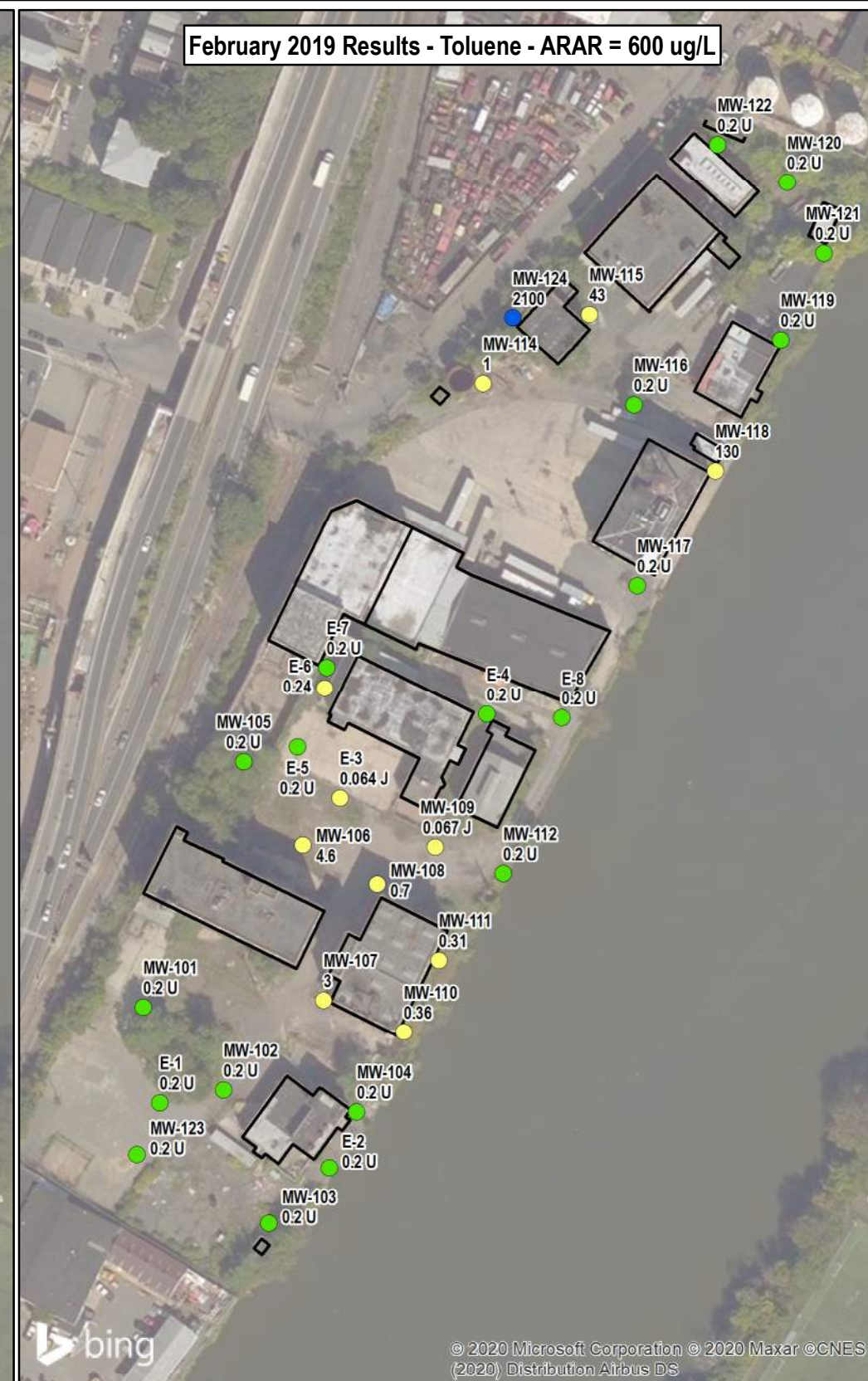


Figure 3-31

**Toluene  
Groundwater Sampling  
Results - Fill Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

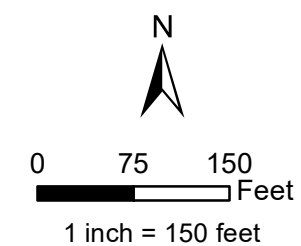
**Legend**

RIFS Groundwater Sampling Results  
(ug/L)

- Result Not Detected (green)
- Detection Below ARAR
- Detection Exceeds ARAR
- Buildings (Survey)

**Notes:**

1. See RIR results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020  
Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.



February 2019 Results - Trichloroethane, 1,1,2 - ARAR = 3 ug/l



February 2019 Results - Benzo[a]anthracene - ARAR = 0.1 ug/l

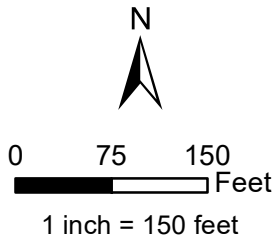


**Figure 3-32**  
**Groundwater Sampling Results**  
**1,1,2-Trichloroethane and**  
**Benzo[a]anthracene**  
**Deep Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

- Legend**  
**RIFS Groundwater Sampling Results (ug/L)**
- Result Not Detected (green)
  - Detection Below ARAR (yellow)
  - Detection Exceeds ARAR (blue)
  - Buildings (Survey)

**Notes:**  
1. See RIR results tables for qualifier definitions.



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February 2019 Results - Tetrachloroethane, 1,1,2,2 - ARAR = 1 ug/l



February 2019 Results - Tetrachloroethylene - ARAR = 1 ug/l

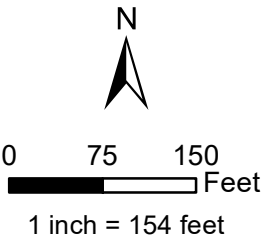


**Figure 3-33**  
**Groundwater Sampling Results**  
**Tetrachloroethane, 1,1,2,2,**  
**and Tetrachloroethylene**  
**Deep Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

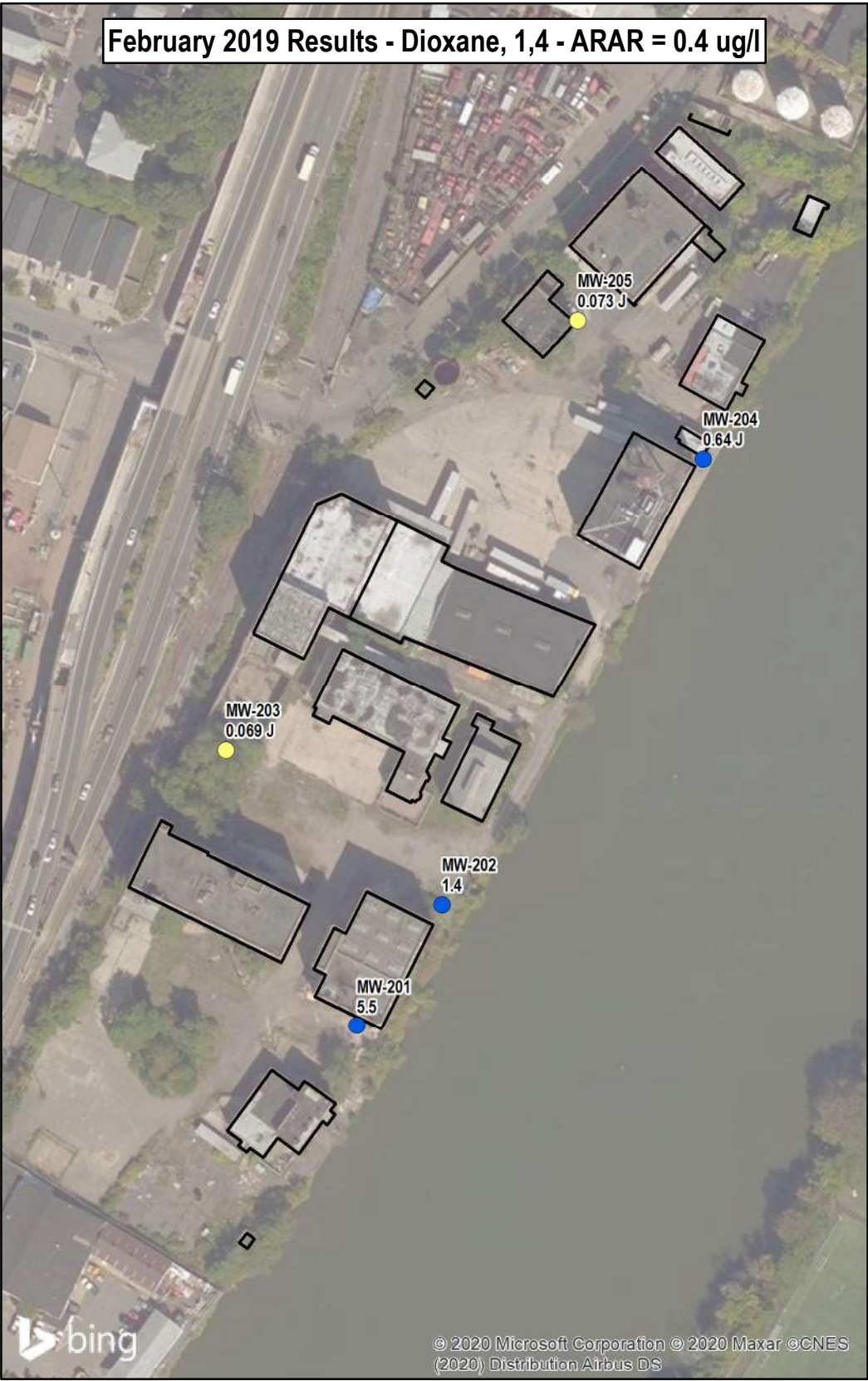
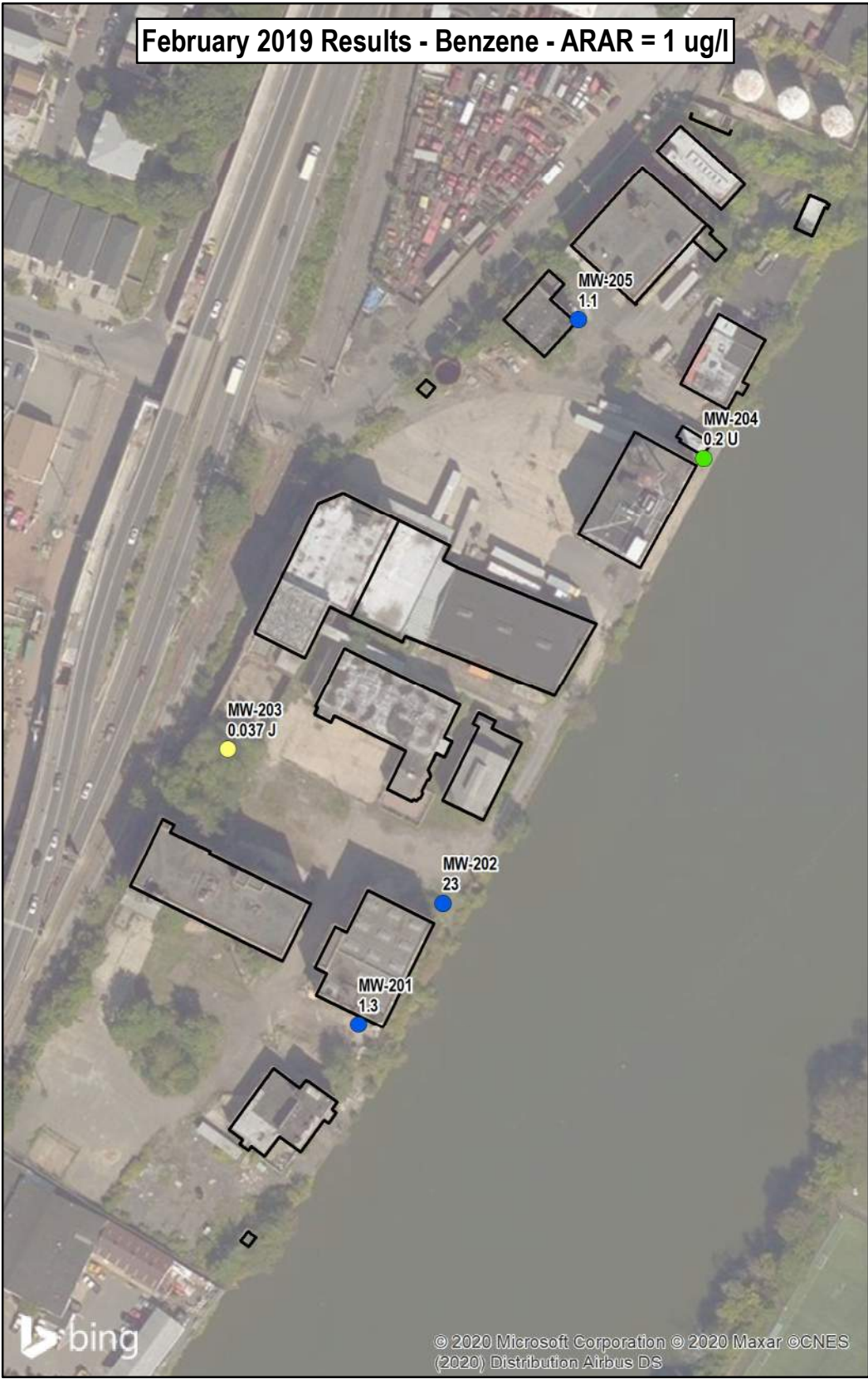
- Legend**  
**RIFS Groundwater Sampling Results (ug/L)**
- Result Not Detected (green)
  - Detection Below ARAR (yellow)
  - Detection Exceeds ARAR (blue)
  - Buildings (Survey)

**Notes:**  
1. See RIR results tables for qualifier definitions.



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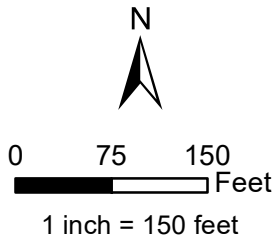


**Figure 3-34**  
**Groundwater Sampling Results**  
**Benzene, 1,4-Dioxane, and Lead**  
**Deep Unit**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

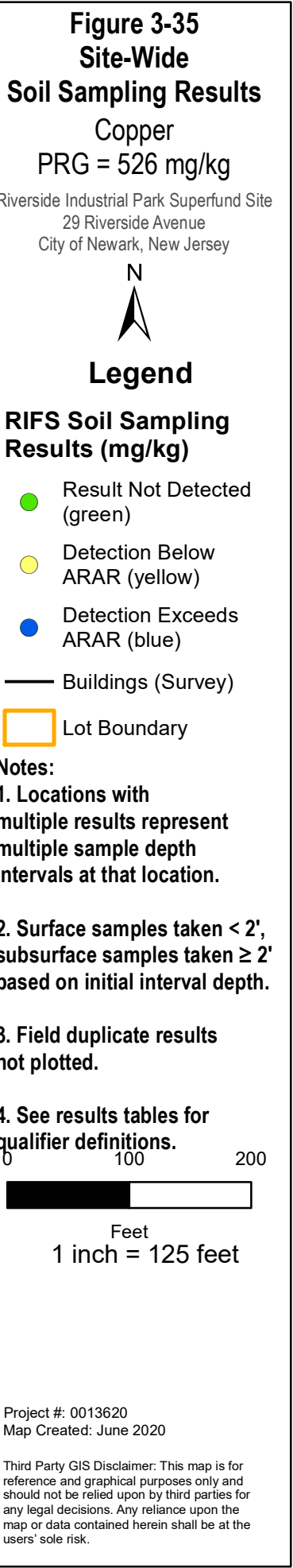
- Legend**  
**RIFS Groundwater Sampling Results (ug/L)**
- Result Not Detected (green)
  - Detection Below ARAR
  - Detection Exceeds ARAR
  - Buildings (Survey)

**Notes:**  
1. See RIR results tables for qualifier definitions



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**Figure 3-36**  
**Site-Wide**  
**Soil Sampling Results**  
**Napthalene**  
**PRG = 0.62 mg/kg**

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey

N

**Legend**

**RIFS Soil Sampling Results (mg/kg)**

- Result Not Detected (green)
- Detection Below ARAR (yellow)
- Detection Exceeds ARAR (blue)
- Buildings (Survey)
- Lot Boundary

**Notes:**

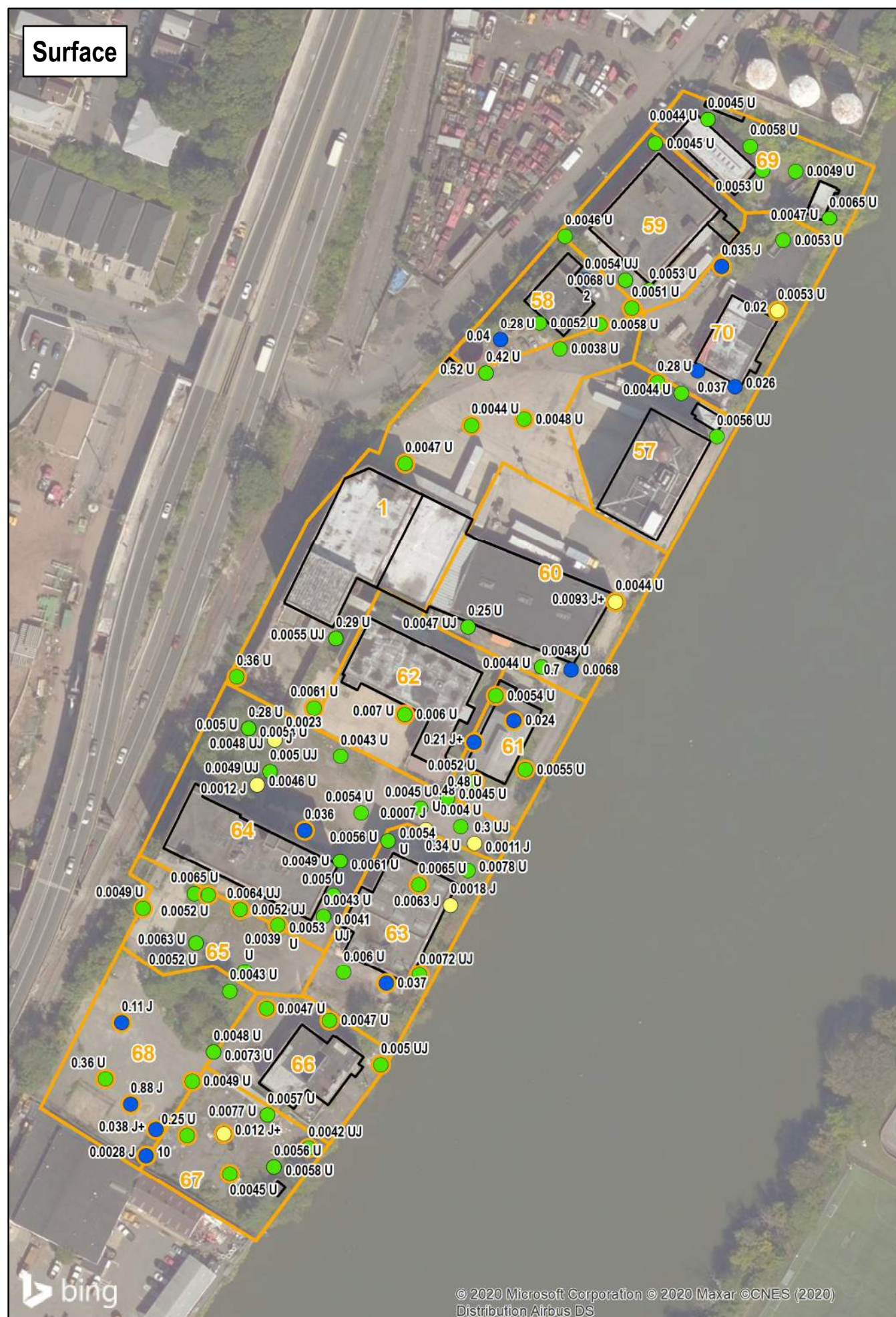
- Locations with multiple results represent multiple sample depth intervals at that location.
- Surface samples taken < 2', subsurface samples taken ≥ 2' based on initial interval depth.
- Field duplicate results not plotted.
- See results tables for qualifier definitions.

0 100 200  
Feet  
1 inch = 125 feet

Project #: 0013620  
Map Created: June 2020

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**Figure 3-37**  
**Site-Wide**  
**Soil Sampling Results**  
Trichloroethene  
PRG = 0.02 mg/kg

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey



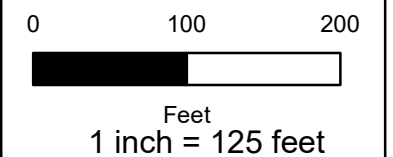
### Legend

### RIFS Soil Sampling Results (mg/kg)

-  Result Not Detected (green)
-  Detection Below ARAR (yellow)
-  Detection Exceeds ARAR (blue)
-  Buildings (Survey)
-  Lot Boundary

**Notes:**

1. Locations with multiple results represent multiple sample depth intervals at that location.
2. Surface samples taken  $< 2'$ , subsurface samples taken  $\geq 2'$  based on initial interval depth.
3. Field duplicate results not plotted.
4. See results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020

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**Figure 3-38**  
**Site-Wide**  
**Soil Sampling Results**  
xylene, m-p  
PRG = 6.5 mg/kg

Riverside Industrial Park Superfund Site  
29 Riverside Avenue  
City of Newark, New Jersey



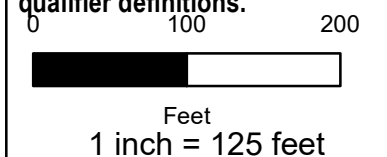
## Legend

### RIFS Soil Sampling Results (mg/kg)

-  Result Not Detected (green)
-  Detection Below ARAR (yellow)
-  Detection Exceeds ARAR (blue)
-  Buildings (Survey)
-  Lot Boundary

**Notes:**

1. Locations with multiple results represent multiple sample depth intervals at that location.
2. Surface samples taken  $< 2'$ , subsurface samples taken  $\geq 2'$  based on initial interval depth.
3. Field duplicate results not plotted.
4. See results tables for qualifier definitions.



Project #: 0013620  
Map Created: June 2020


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Legend

- Soil Boring
- Underground Storage Tanks
- Site Boundary
- Site Lots
- Institutional Controls
- Excavation and Off-Site Disposal - UST and Soil/Fill NAPL

JOB NO.: 0013620 DATE: June, 2020 1 inch = 100 feet SHEET: OF	RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE	Soil Alternative 2 - Institutional Controls and NAPL Removal	© 2020 Microsoft Corporation © 2020 Maxar ©CNES (2020) Distribution Airbus DS	 0 25 50 100 Feet	Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.
FIGURE 5-1	Newark, New Jersey		Spatial Reference Name: NAD 1983 StatePlane New Jersey FIPS 2900 Feet		





Legend

- Soil Boring
- Footprint of Engineering Controls (Bulkhead)
- Underground Storage Tanks
- Site Boundary
- Site Lots
- Insitutional Controls
- Excavation and Off-Site Disposal - UST and Soil/Fill NAPL
- ▨ Engineering Control (Cap)

Note: Building demolition is not required or incorporated in this alternative

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FIGURE 5-2	Newark, New Jersey		Spatial Reference Name: NAD 1983 StatePlane New Jersey FIPS 2900 Feet		





Legend

- Soil Boring
- Footprint of Engineering Controls (Bulkhead)
- Underground Storage Tanks
- Site Boundary
- Site Lots
- Institutional Controls
- Excavation and Off-Site Disposal - UST and Soil/Fill NAPL
- Footprint of Soil Alternative 4 for Focused Lead Removal
- Engineering Control (Cap)

Note: Building demolition is not required or incorporated in this alternative

JOB NO.: 0013620 DATE: June, 2020 1 inch = 100 feet SHEET: OF	RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE	Soil Alternative 4 - Institutional Controls, Engineering Controls, Focused Removal with Off-Site Disposal of Lead and NAPL Removal	© 2020 Microsoft Corporation © 2020 Maxar ©CNES (2020) Distribution Airbus DS	 0 25 50 100 Feet	Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.
FIGURE 5-3	Newark, New Jersey		Spatial Reference Name: NAD 1983 StatePlane New Jersey FIPS 2900 Feet		





Legend

- Soil Boring
- Footprint of Engineering Controls (Bulkhead)  
(See Soil Alternative 3 for Engineering Control - Cap Area)
- Underground Storage Tanks
- Site Boundary
- Site Lots
- Institutional Controls
- Remediation Area
- Excavation and Off-Site Disposal - UST and Soil/Fill NAPL



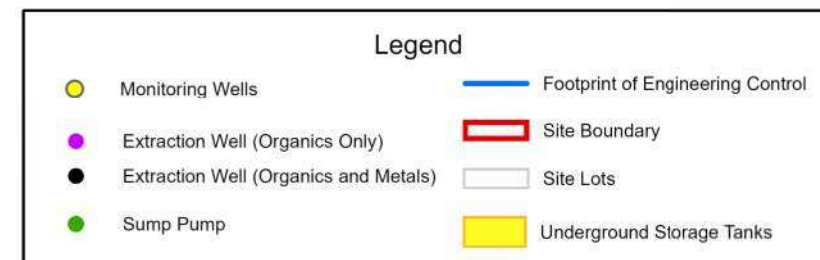
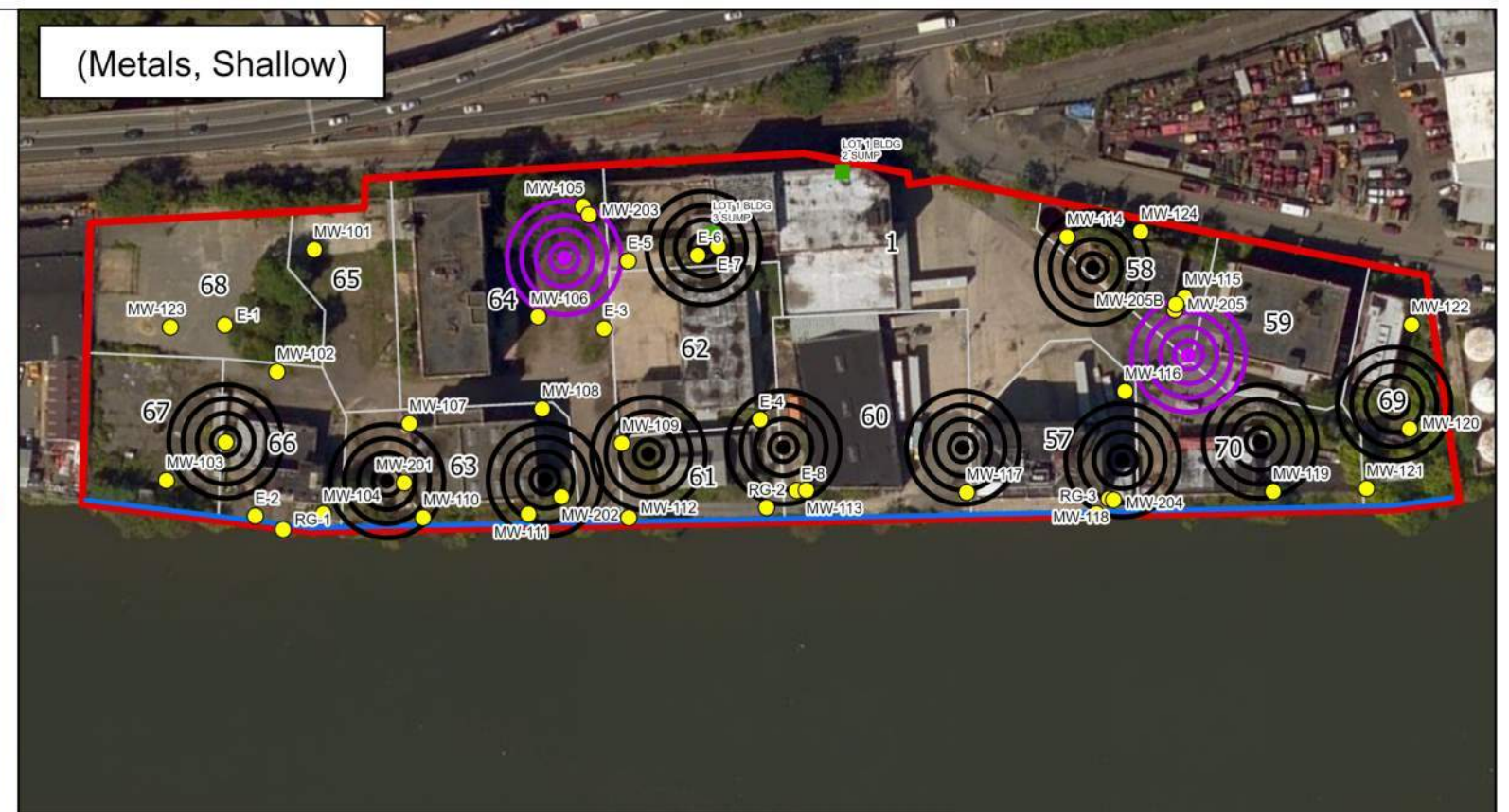


JOB NO.: 0013620 DATE: June, 2020 1 inch = 100 feet SHEET: OF	RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE	© 2020 Microsoft Corporation © 2020 Maxar ©CNES (2020) Distribution Airbus DS		Third Party/GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.
FIGURE 5-5	Newark, New Jersey	Spatial Reference Name: NAD 1983 StatePlane New Jersey FIPS 2900 Feet		

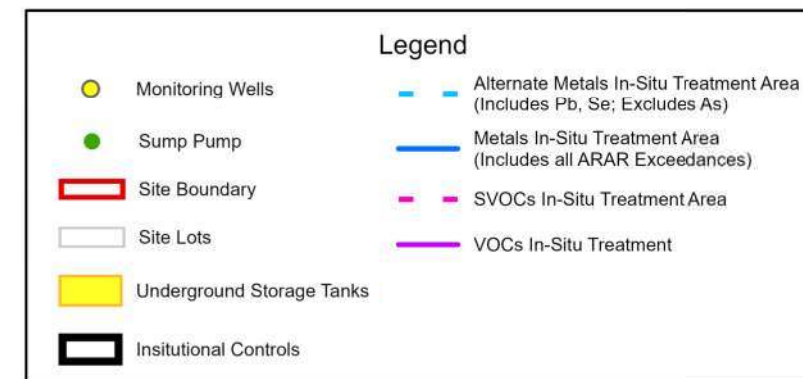
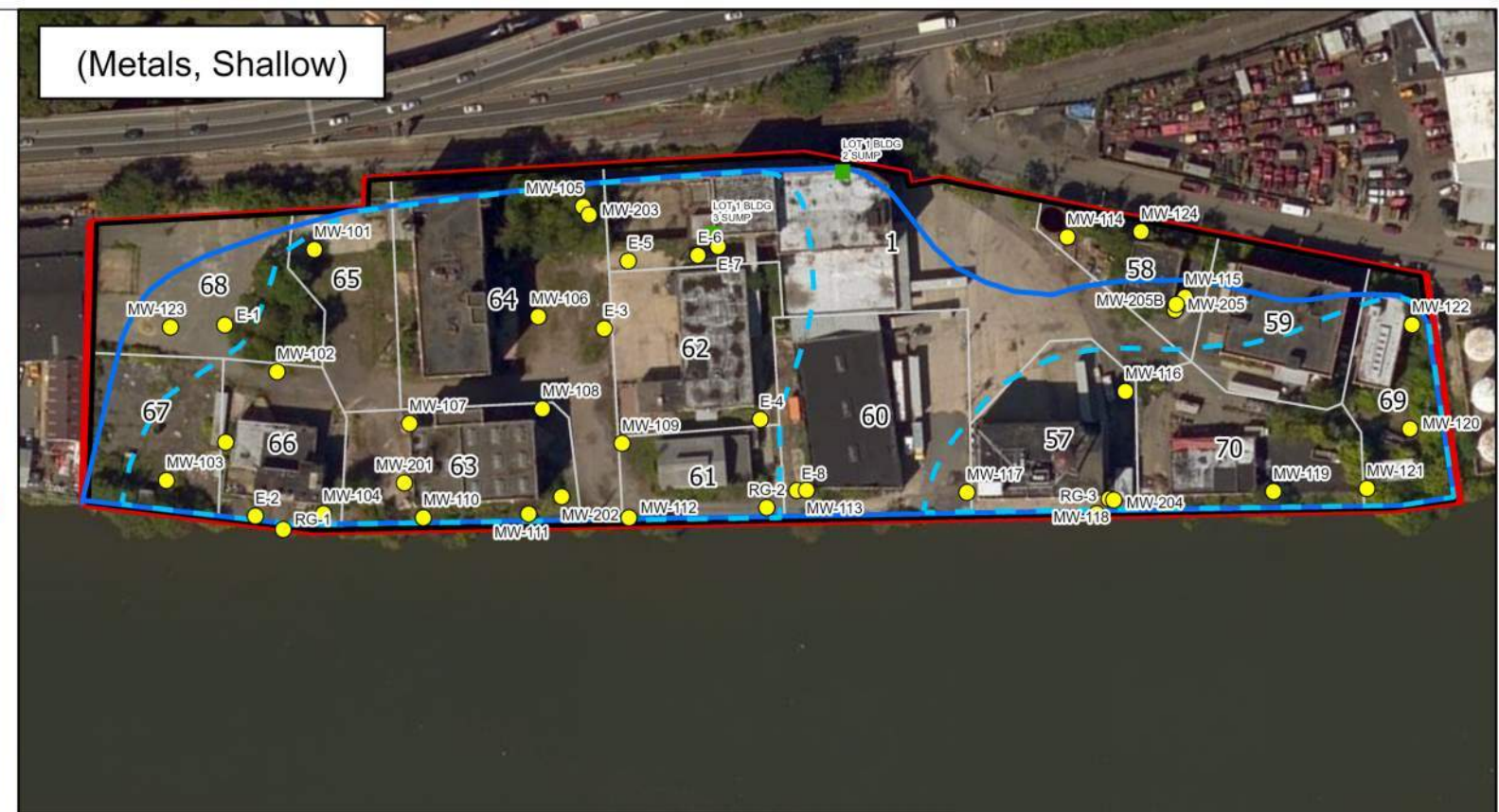




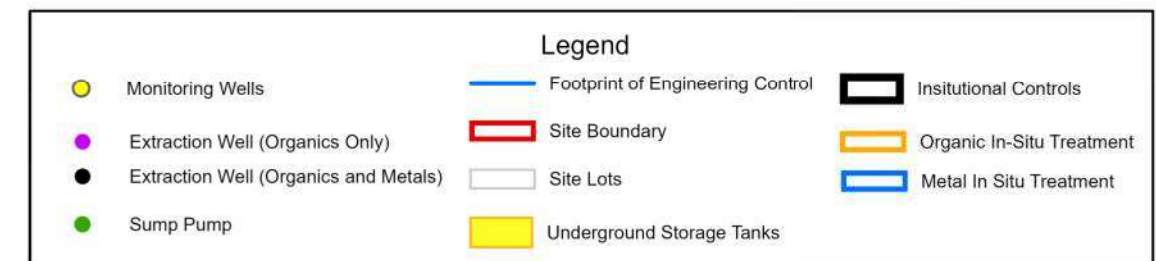
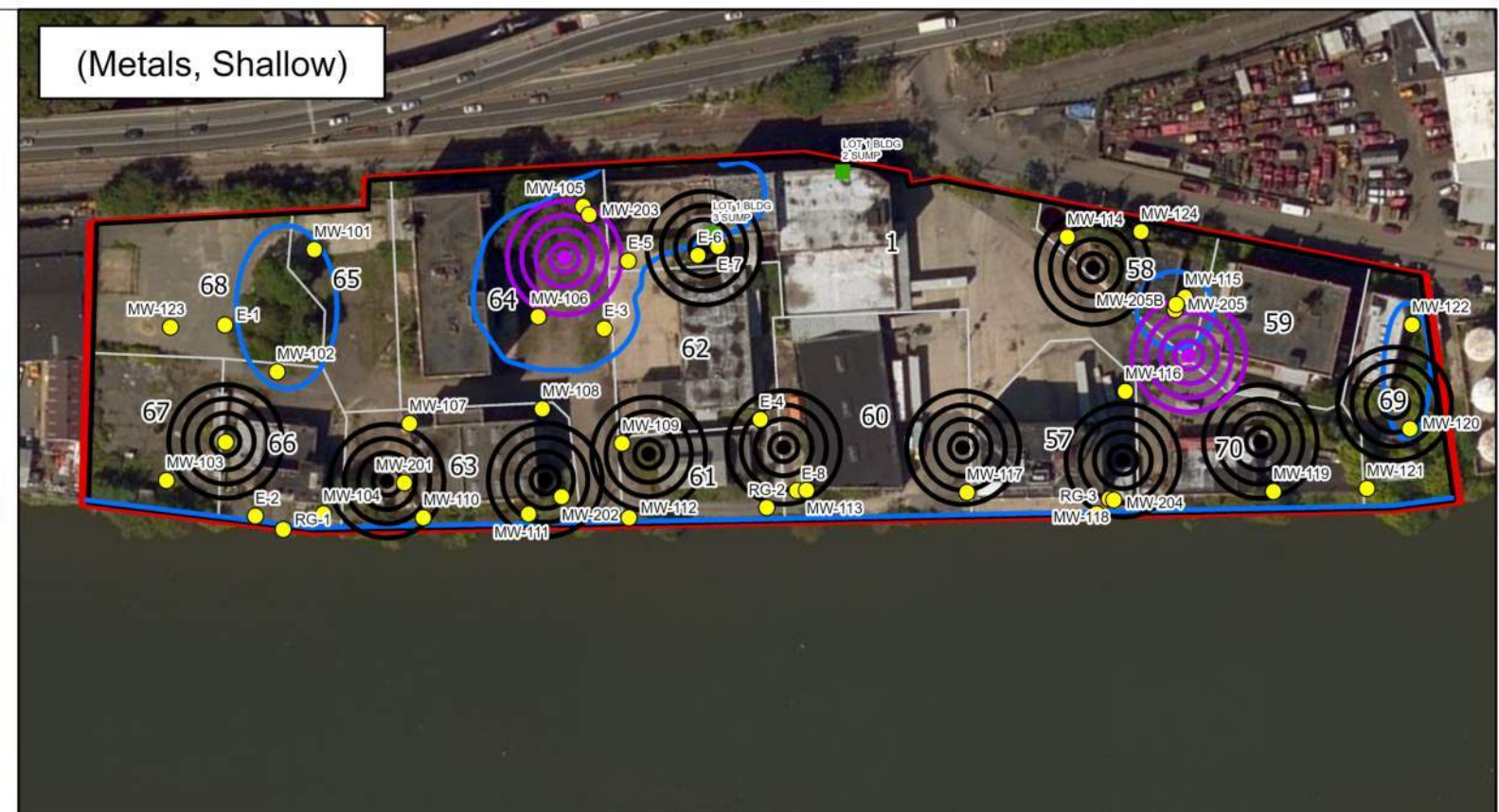
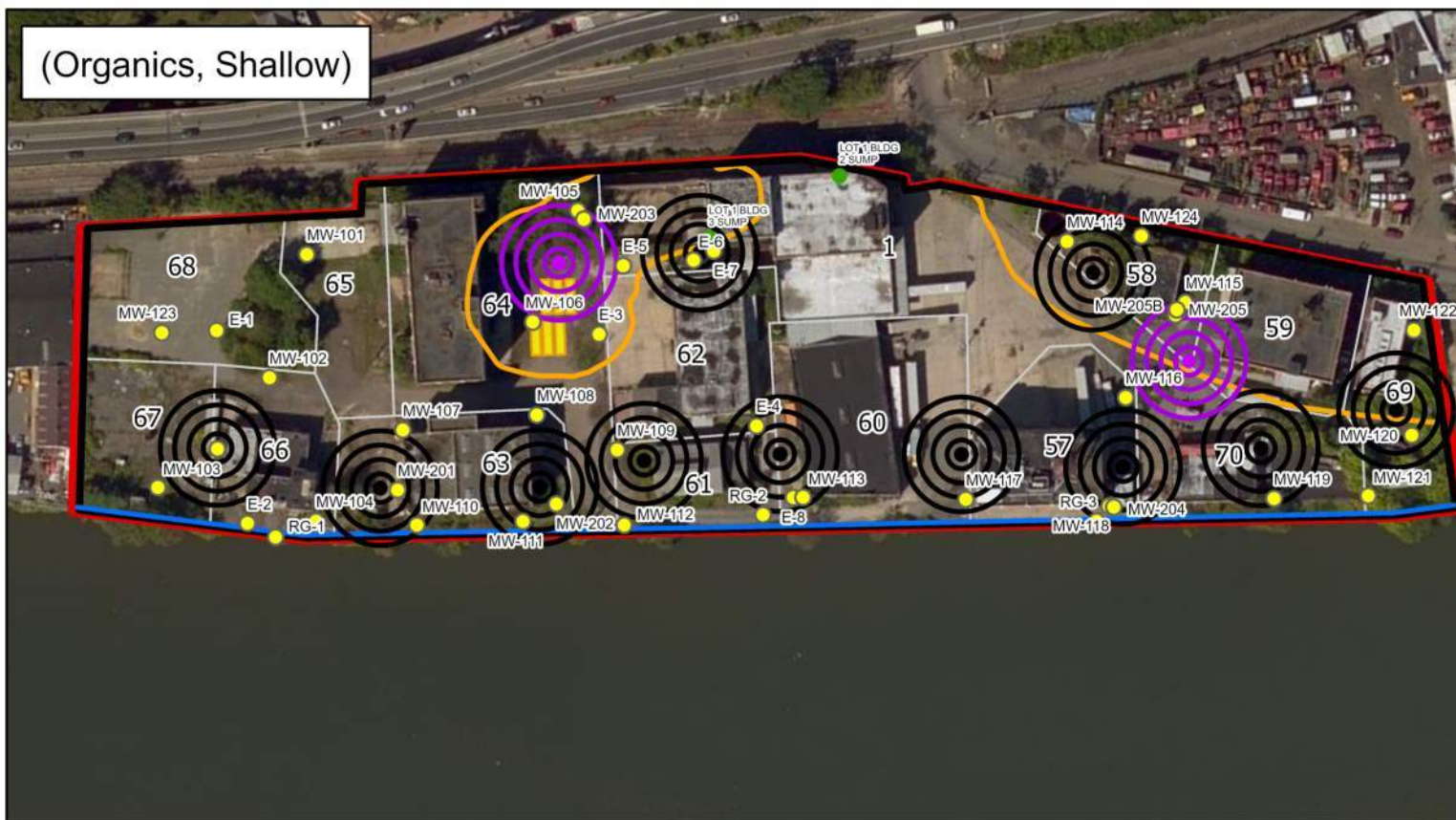

















Legend






- Monitoring Wells
- Footprint of Engineering Control
- Underground Storage Tanks
- Site Boundary
- Site Lots
- Deep Groundwater In-Situ Treatment Area (Organics)
- Shallow Groundwater In-Situ Treatment Area (Organics)
- Shallow and Deep Groundwater In-Situ Treatment Area (Organics)
- Shallow Groundwater In-Situ Treatment Area (Lead)


JOB NO.: 0013620 DATE: June, 2020 1 inch = 100 feet SHEET: OF	RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE	Groundwater Alternative 5 - Institutional Controls, Site Containment and Focused In-Situ Remediation	© 2020 Microsoft Corporation © 2020 Maxar ©CNES (2020) Distribution Airbus DS	 0 25 50 100 Feet	Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.
FIGURE 5-10	Newark, New Jersey		Spatial Reference Name: NAD 1983 StatePlane New Jersey FIPS 2900 Feet		





Legend

-  Underground Storage Tanks
-  Site Boundary
-  Site Lots
-  Institutional Controls
-  Footprint of Engineering Control (Site Containment)

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FIGURE 5-11	Newark, New Jersey		Spatial Reference Name: NAD 1983 StatePlane New Jersey FIPS 2900 Feet		



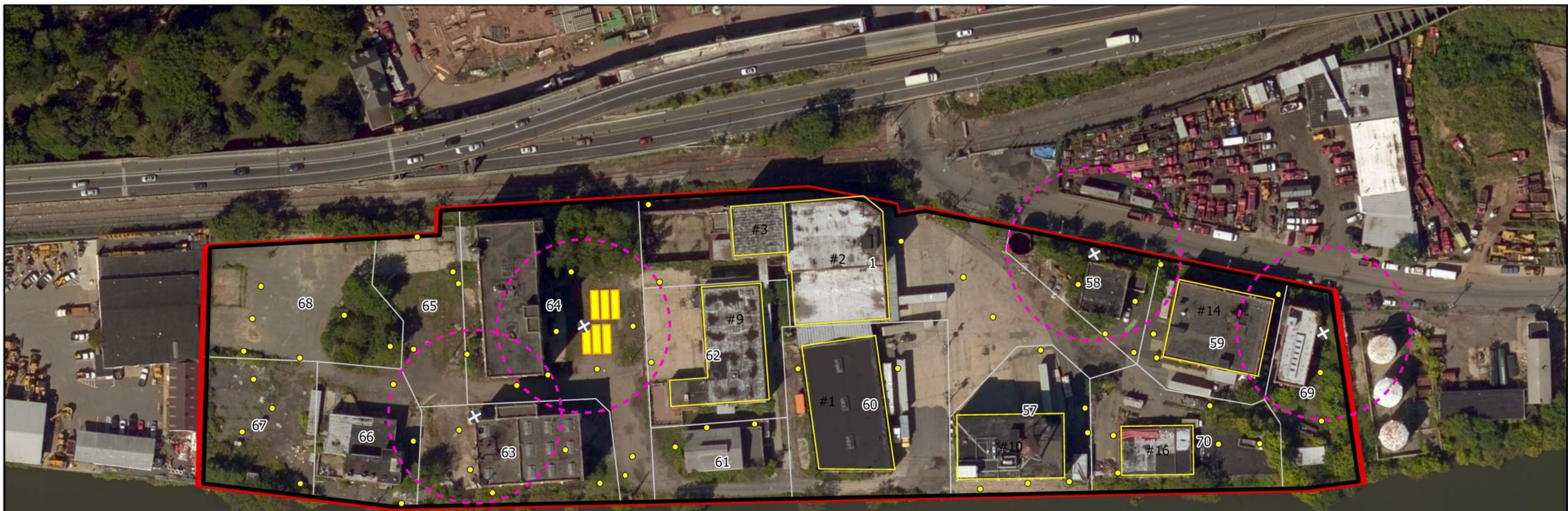


Legend

- Footprint of Engineering Control
- Underground Storage Tanks
- Site Boundary
- Site Lots
- Insitutional Controls

JOB NO.: 0013620 DATE: June, 2020 1 inch = 100 feet SHEET: OF	RIVERSIDE INDUSTRIAL PARK SUPERFUND SITE	Groundwater Alternative 7 - Institutional Controls, Site Containment and Monitored Natural Attenuation	© 2020 Microsoft Corporation © 2020 Maxar ©CNES (2020) Distribution Airbus DS		Third Party GIS Disclaimer: This map is for reference and graphical purposes only and should not be relied upon by third parties for any legal decisions. Any reliance upon the map or data contained herein shall be at the users' sole risk.
FIGURE 5-12	Newark, New Jersey		Spatial Reference Name: NAD 1983 StatePlane New Jersey FIPS 2900 Feet		





## Legend

- Soil Boring
  - Underground Storage Tanks
  - Site Boundary
  - Site Lots
  - Air Monitoring or Engineering Controls (Existing Occupied Buildings)
  - Institutional Controls and Site-Wide Engineering Controls for Future Buildings
- Shallow Groundwater Vapor Intrusion Screening Level Exceedance.
- Existing or future buildings within 100-foot radius from monitoring well will warrant further investigation for potential vapor intrusion or institutional controls. Areas are based on current data. Boundary would be delineated from the edge of the plume, per NJDEP guidance.

JOB NO.: 0013620  
 DATE: June, 2020  
 1 inch = 100 feet  
 SHEET: OF

FIGURE 5-13

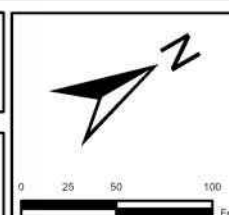
RIVERSIDE INDUSTRIAL PARK  
 SUPERFUND SITE

Newark, New Jersey

Soil Gas Alternative 2 - Institutional Controls, Air Monitoring or  
 Engineering Controls (Existing Occupied Buildings) and Site-  
 Wide Engineering Controls (Future Buildings)

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Spatial Reference  
 Name: NAD 1983 StatePlane New Jersey  
 FIPS 2900 Feet



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Legend

- Soil Boring
  - Underground Storage Tanks
  - ▬ Site Boundary
  - ▭ Site Lots
  - ▬ Institutional Controls
  - ▭ Air Monitoring or Engineering Controls (Existing Occupied Buildings)
  - ▭ 100 Foot Buffer of Existing Occupied Building
- Remedial Footprint

  - More Than 100 Feet From Existing Occupied Building – Engineering Controls or Air Monitoring Apply
  - Within 100 Feet of Existing Occupied Building – Active Remediation (In-Situ)

Shallow Groundwater Vapor Intrusion Screening Level Exceedance.

Existing or future buildings within 100-foot radius from monitoring well will warrant further investigation for potential vapor intrusion or institutional controls. Areas are based on current data. Boundary would be delineated from the edge of the plume, per NJDEP guidance.





Legend

- Soil Boring
  - Underground Storage Tanks
  - Site Boundary
  - Site Lots
  - Institutional Controls
  - Air Monitoring or Engineering Controls (Existing Occupied Buildings)
  - 100 Foot Buffer of Existing Occupied Building
- Remedial Footprint

  - More Than 100 Feet From Existing Occupied Building – Engineering Controls or Air Monitoring Apply
  - Within 100 Feet of Existing Occupied Building – Active Remediation (Removal and Off-Site Disposal)

Shallow Groundwater Vapor Intrusion Screening Level Exceedance.

Existing or future buildings within 100-foot radius from monitoring well will warrant further investigation for potential vapor intrusion or institutional controls. Areas are based on current data. Boundary would be delineated from the edge of the plume, per NJDEP guidance.



